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1993

DEPARTMENT OF DEFENSE PRIME CONTRACT OVER \$25,000 FOR
RESEARCH AND DEVELOPMENT. FISCAL YEAR 1992.
(AB11 AMERICAN SCIENCE & ENGINEERING -AZUS WIZDOM SYSTEMS.INC).

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NO ABSTRACT

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AB11	REDACTED				
AB11	AMERICAN SCIENCE & ENGINEERING	Mass	ARMY	RDTE/Crime Prevention & Control-Basic Rese	1,687
AB12	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Crime Prevention & Control-Explor Dev	946
AB15	FUERZAS DE SEGURIDAD	PANAMA	ARMY	RDTE/Crime Prevention & Control-Op Systems	34
AB91	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Community Svcs & Develop-Basic	64
AC11	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Aircraft-Basic Research	218
	ANAMET LABORATORIES INC	California	NAVY	RDTE/Aircraft-Basic Research	40
	BARFIELD INSTRUMENT CORP	Florida	USAF	RDTE/Aircraft-Basic Research	27
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Basic Research	65
	BRUSH WELLMAN INC	Ohio	NAVY	RDTE/Aircraft-Basic Research	285
	CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Aircraft-Basic Research	47
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Aircraft-Basic Research	105
	CFD RESEARCH CORPORATION	Alabama	NAVY	RDTE/Aircraft-Basic Research	125
	DREW DAWN ENTERPRISES INC	Maryland	ARMY	RDTE/Aircraft-Basic Research	53
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Basic Research	393
	FOSTER-MILLER INC	Mass	USAF	RDTE/Aircraft-Basic Research	58
	GENERAL ELECTRIC COMPANY	Ohio	NAVY	RDTE/Aircraft-Basic Research	280
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Basic Research	77
	GREYSTONE DEFENSE SYSTEMS DIVI	California	NAVY	RDTE/Aircraft-Basic Research	49
	L-CHEM INC	Ohio	NAVY	RDTE/Aircraft-Basic Research	47
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Aircraft-Basic Research	56
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Basic Research	92
	SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Basic Research	104
	SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Aircraft-Basic Research	54
	TECHNOLOGY INTEGRATION INC	Mass	NAVY	RDTE/Aircraft-Basic Research	825
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Aircraft-Basic Research	46

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FISCAL YEAR 1992

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC11 (CONTINUED)

UNIVERSITY OF MINNESOTA	Minnesota	NAVY	RDTE/Aircraft-Basic Research	\$	69
WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Basic Research		7,532
R&D TOTAL					10,645
AC12 A A I CORPORATION	Maryland	ARMY	RDTE/Aircraft-Exploratory Development		4,847
ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY	RDTE/Aircraft-Exploratory Development		89
ANACAPA SCIENCES INC	California	ARMY	RDTE/Aircraft-Exploratory Development		121
ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Aircraft-Exploratory Development		92
AVCO CORPORATION	Conn	ARMY	RDTE/Aircraft-Exploratory Development		248
		NAVY	RDTE/Aircraft-Exploratory Development		170
STATE TOTAL					418
CONTRACTOR TOTAL	Mass	ARMY	RDTE/Aircraft-Exploratory Development		616-
					198-
BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		1,433
BRITISH INTL HELICOPTER LIMITE	UNITED KIN	ARMY	RDTE/Aircraft-Exploratory Development		68
BURNETTE ENGINEERING	Ohio	USAF	RDTE/Aircraft-Exploratory Development		100
CERBEC INC	Conn	USAF	RDTE/Aircraft-Exploratory Development		1,499
CONNELLY APPLIED RESEARCH	Penn	NAVY	RDTE/Aircraft-Exploratory Development		31
CRITICAL SOFTWARE	California	NAVY	RDTE/Aircraft-Exploratory Development		83
DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Aircraft-Exploratory Development		42
DREXEL UNIVERSITY	Penn	NAVY	RDTE/Aircraft-Exploratory Development		130
DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		1,256
DUCHOSSOIS ENTERPRISES INC	Tennessee	NAVY	RDTE/Aircraft-Exploratory Development		80
FOSTER MILLER INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development		133
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Exploratory Development		123

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC12 (CONTINUED)					
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Aircraft-Exploratory Development	\$ 120
			NAVY	RDTE/Aircraft-Exploratory Development	500
	CONTRACTOR TOTAL				620
		Ohio	NAVY	RDTE/Aircraft-Exploratory Development	720
					1,340
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Exploratory Development	162
	H R TEXTRON INC	California	NAVY	RDTE/Aircraft-Exploratory Development	727
	HORIZONS TECHNOLOGY INC	Florida	USAF	RDTE/Aircraft-Exploratory Development	263
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Exploratory Development	401
	I I T RESEARCH INSTITUTE	Illinois	NAVY	RDTE/Aircraft-Exploratory Development	75
	LOCKHEED CORPORATION	Georgia	NAVY	RDTE/Aircraft-Exploratory Development	45-
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development	140
	MARMON MOTOR COMPANY	Texas	ARMY	RDTE/Aircraft-Exploratory Development	308
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Aircraft-Exploratory Development	52
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Exploratory Development	248
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	123
	NORTH CAROLINA A&T STATE UNIV	N Carolina	NAVY	RDTE/Aircraft-Exploratory Development	40
	PENNSYLVANIA STATE UNIVERSITY	Penn	NAVY	RDTE/Aircraft-Exploratory Development	30
	PRODUCTS RESEARCH & CHEM CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	111
	RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Aircraft-Exploratory Development	100
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	30-
			USAF	RDTE/Aircraft-Exploratory Development	675
	CONTRACTOR TOTAL				645
	ROLLS-ROYCE INC	Georgia	ARMY	RDTE/Aircraft-Exploratory Development	43
	SABBAGH ASSOCIATES INC	Indiana	NAVY	RDTE/Aircraft-Exploratory Development	51

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC12 (CONTINUED)

SCIDMORE & SHEAN	New York	ARMY	RDTE/Aircraft-Exploratory Development	\$	74
SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Aircraft-Exploratory Development		90
STETSON ENGINEERS INC	Arizona	NAVY	RDTE/Aircraft-Exploratory Development		85
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Aircraft-Exploratory Development		195
UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Exploratory Development		117
		NAVY	RDTE/Aircraft-Exploratory Development		964
	STATE TOTAL				1,081
	Florida	USAF	RDTE/Aircraft-Exploratory Development		325
					1,405
CONTRACTOR TOTAL					200
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Exploratory Development		50
VITRO CORPORATION	Florida	NAVY	RDTE/Aircraft-Exploratory Development		79
WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development		16,921
R&D TOTAL					100
AC13	Virginia	USAF	RDTE/Aircraft-Advanced Development		100
ADROIT SYSTEMS INC	California	USAF	RDTE/Aircraft-Advanced Development		140
ADVANCED RES & APPLICATIONS	California	NAVY	RDTE/Aircraft-Advanced Development		145
AEROJET	Arizona	NAVY	RDTE/Aircraft-Advanced Development		771
ALLIED SIGNAL AEROSPACE CO		USAF	RDTE/Aircraft-Advanced Development		916
	STATE TOTAL				805
ALLIED SIGNAL INC	Arizona	USAF	RDTE/Aircraft-Advanced Development		115
AMERICAN OPTICAL CORPORATION	Mass	USAF	RDTE/Aircraft-Advanced Development		9,306
ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Aircraft-Advanced Development		4,275
AVCO CORPORATION	Conn	ARMY	RDTE/Aircraft-Advanced Development		487-
		USAF	RDTE/Aircraft-Advanced Development		3,788
	STATE TOTAL				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC13 (CONTINUED)					
	BOEING COMPANY THE	Washington	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	\$ 720 875-
		STATE TOTAL			155-
	BOEING SKORSKY LHX PROGRAM OFF	Penn	ARMY	RDTE/Aircraft-Advanced Development	457,412
	CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Aircraft-Advanced Development	390
	CENTURY COMPUTING INC	Maryland	USAF	RDTE/Aircraft-Advanced Development	40
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	357
	CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	182
	CSA ENGINEERING INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	91
	DOUGLAS AIRCRAFT COMPANY	California	USAF	RDTE/Aircraft-Advanced Development	50
	FOSTER MILLER INC	Mass	USAF	RDTE/Aircraft-Advanced Development	56
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	542
		Texas	USAF	RDTE/Aircraft-Advanced Development	7,184
		STATE TOTAL			7,726
	CONTRACTOR TOTAL				
	GENERAL ELECTRIC COMPANY	Mass	ARMY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	4,361 1,193
		STATE TOTAL			5,554
		Ohio	USAF	RDTE/Aircraft-Advanced Development	9,058
		Indiana	USAF	RDTE/Aircraft-Advanced Development	14,612
	GENERAL MOTORS CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	6,693
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	1,537
	GTE GOVERNMENT SYSTEMS CORP	Minnesota	USAF	RDTE/Aircraft-Advanced Development	200
	HONEYWELL INC	Illinois	USAF	RDTE/Aircraft-Advanced Development	243
	I I T RESEARCH INSTITUTE	Conn	NAVY	RDTE/Aircraft-Advanced Development	105
	IMS INC	Mass	NAVY	RDTE/Aircraft-Advanced Development	28
	INTEGRATED SYSTEMS INC		NAVY	RDTE/Aircraft-Advanced Development	32

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AC13 (CONTINUED)

ITT CORPORATION	New Jersey	USAF	RDTE/Aircraft-Advanced Development	\$ 355
LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Advanced Development	1,076
LOCKHEED CORPORATION	Georgia	USAF	RDTE/Aircraft-Advanced Development	180
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Aircraft-Advanced Development	1,595
LORAL CORP	Mass	USAF	RDTE/Aircraft-Advanced Development	63-
	Ohio	USAF	RDTE/Aircraft-Advanced Development	33
CONTRACTOR TOTAL				30-
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Aircraft-Advanced Development	360
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	100 5,433
STATE TOTAL				5,533
	Penn	NAVY	RDTE/Aircraft-Advanced Development	300
CONTRACTOR TOTAL				5,833
MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Advanced Development	73
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Aircraft-Advanced Development	5
NATIONAL PROGRAM OFFICE	California	USAF	RDTE/Aircraft-Advanced Development	142,804
NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	640
OPTICAL SHIELDS INC	California	USAF	RDTE/Aircraft-Advanced Development	100
PIASECKI AIRCRAFT CORP	Penn	ARMY	RDTE/Aircraft-Advanced Development	2,233
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Advanced Development	5,296
CONTRACTOR TOTAL	Oklahoma	USAF	RDTE/Aircraft-Advanced Development	179
ROHR INC	California	USAF	RDTE/Aircraft-Advanced Development	5,475
SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Aircraft-Advanced Development	342
	California	USAF	RDTE/Aircraft-Advanced Development	238

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC13 (CONTINUED)

CONTRACTOR TOTAL					\$	1,664
SIMULA INC	Ohio	USAF		RDTE/Aircraft-Advanced Development		1,902
TELEDYNE INDUSTRIES INC	Arizona	NAVY		RDTE/Aircraft-Advanced Development		44
TEXAS INSTRUMENTS INCORPORATED	Ohio	USAF		RDTE/Aircraft-Advanced Development		1,873
TRW INC	Texas	USAF		RDTE/Aircraft-Advanced Development		75
UNITED TECHNOLOGIES CORP	California	USAF		RDTE/Aircraft-Advanced Development		775
	Conn	USAF		RDTE/Aircraft-Advanced Development		729
	Florida	USAF		RDTE/Aircraft-Advanced Development		2,944
CONTRACTOR TOTAL						3,673
VEDA INTERNATIONAL INC	Ohio	USAF		RDTE/Aircraft-Advanced Development		620
R&D TOTAL						674,875
AC14 A A I CORPORATION	Maryland	USAF		RDTE/Aircraft-Engineering Development		2,120
AEROJET	California	ARMY		RDTE/Aircraft-Engineering Development		424
AEROSPACE SERVICE & CONTROL	California	NAVY		RDTE/Aircraft-Engineering Development		83
ALLIED SIGNAL AEROSPACE CO	Arizona	USAF		RDTE/Aircraft-Engineering Development		3,132
	California	ARMY		RDTE/Aircraft-Engineering Development		182
CONTRACTOR TOTAL						3,314
ALLOY SURFACES CO	Delaware	USAF		RDTE/Aircraft-Engineering Development		219
BELL BOEING JV	Penn	NAVY		RDTE/Aircraft-Engineering Development		944
	Texas	NAVY		RDTE/Aircraft-Engineering Development		43,713
	Virginia	NAVY		RDTE/Aircraft-Engineering Development		89
CONTRACTOR TOTAL						44,747
BELL HELICOPTER INTERNATIONAL	Texas	NAVY		RDTE/Aircraft-Engineering Development		223
BELL HELICOPTER TEXTRON INC	Texas	NAVY		RDTE/Aircraft-Engineering Development		482

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC14 (CONTINUED)

BOEING AEROSPACE OPERATIONS	Washington	NAVY	RDTE/Aircraft-Engineering Development	\$	2,151
BOEING COMPANY THE	Alabama	USAF	RDTE/Aircraft-Engineering Development		6,352
	Washington	USAF	RDTE/Aircraft-Engineering Development		4,233-
CONTRACTOR TOTAL					2,119
BROWN DAYTON T INC	New York	NAVY	RDTE/Aircraft-Engineering Development		299
CACI INTERNATIONAL INC	Virginia	NAVY	RDTE/Aircraft-Engineering Development		247
CAS INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development		596
CHADWICK HELMUTH CO INC	California	ARMY	RDTE/Aircraft-Engineering Development		37-
CHRYSLER TECH ARBR SYSTEMS	Texas	USAF	RDTE/Aircraft-Engineering Development		1,315
CLARK ATLANTA UNIVERSITY INC	Georgia	USAF	RDTE/Aircraft-Engineering Development		158
CONAX CORPORATION	Florida	USAF	RDTE/Aircraft-Engineering Development		996
CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Engineering Development		67
CORNING INC	New York	NAVY	RDTE/Aircraft-Engineering Development		110
CTA INCORPORATED	California	NAVY	RDTE/Aircraft-Engineering Development		20,480
EAST WEST INDUSTRIES INC	New York	NAVY	RDTE/Aircraft-Engineering Development		80
ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Engineering Development		9,750
	Penn	USAF	RDTE/Aircraft-Engineering Development		610
CONTRACTOR TOTAL					10,360
EER SYSTEMS CORPORATION	W Virginia	NAVY	RDTE/Aircraft-Engineering Development		1,200
ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development		50
FAIRCHILD INDUSTRIES INC	Maryland	USAF	RDTE/Aircraft-Engineering Development		3,403
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development		360
	Texas	NAVY	RDTE/Aircraft-Engineering Development		20,000
		USAF	RDTE/Aircraft-Engineering Development		4,215

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC14 (CONTINUED)					
	CONTRACTOR TOTAL			STATE TOTAL	\$
GENERAL ELECTRIC COMPANY		Mass	NAVY	RDTE/Aircraft-Engineering Development	24,215
		New Jersey	NAVY	RDTE/Aircraft-Engineering Development	24,575
		Ohio	USAF	RDTE/Aircraft-Engineering Development	145,326
					200
GENERAL MOTORS CORPORATION					60,646
					206,172
GENERAL PHYSICS CORPORATION		Indiana	NAVY	RDTE/Aircraft-Engineering Development	328
			USAF	RDTE/Aircraft-Engineering Development	68
					396
					60
GRUMMAN AEROSPACE CORPORATION		Florida	NAVY	RDTE/Aircraft-Engineering Development	
		Florida	ARMY	RDTE/Aircraft-Engineering Development	95-
		New York	NAVY	RDTE/Aircraft-Engineering Development	91,995
GRUMMAN CORPORATION					91,900
		New York	NAVY	RDTE/Aircraft-Engineering Development	1,697
		California	ARMY	RDTE/Aircraft-Engineering Development	900
HUGHES AIRCRAFT COMPANY			NAVY	RDTE/Aircraft-Engineering Development	12,090
					12,990
					3,541
HUGHES TRAINING SYS INC		Texas	USAF	RDTE/Aircraft-Engineering Development	100
		Penn	NAVY	RDTE/Aircraft-Engineering Development	16,596
INTERNATIONAL BUS MCHS CORP		New York	NAVY	RDTE/Aircraft-Engineering Development	215
		New Jersey	USAF	RDTE/Aircraft-Engineering Development	47
ITT CORPORATION		Florida	USAF	RDTE/Aircraft-Engineering Development	3,840-
J W K INTERNATIONAL CORP		Missouri	ARMY	RDTE/Aircraft-Engineering Development	39
LIGHT HELICOPTER TURBINE ENG		Arizona	NAVY	RDTE/Aircraft-Engineering Development	20,000
LISI ENGR & DEV CO		Georgia	NAVY	RDTE/Aircraft-Engineering Development	
LOCKHEED AERONAUTICAL SYS CO					

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AC14 (CONTINUED)

		USAF	RDTE/Aircraft-Engineering Development	\$	1,245,222
		STATE TOTAL			1,265,222
LOCKHEED AIR TERMINAL INC	California	USAF	RDTE/Aircraft-Engineering Development		300
LOCKHEED SANDERS INC	N.H.	USAF	RDTE/Aircraft-Engineering Development		781
LOGICON INC	California	USAF	RDTE/Aircraft-Engineering Development		301
LORAL AEROSPACE CORP	California	NAVY	RDTE/Aircraft-Engineering Development		424
LORAL CORP	California	USAF	RDTE/Aircraft-Engineering Development		1,126
MARQUARDT COMPANY THE	California	NAVY	RDTE/Aircraft-Engineering Development		262
MATERIALS ANALYSIS INC	Texas	USAF	RDTE/Aircraft-Engineering Development		48
MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development		367,692
	Kansas	USAF	RDTE/Aircraft-Engineering Development		256
	Missouri	NAVY	RDTE/Aircraft-Engineering Development		280,093
		USAF	RDTE/Aircraft-Engineering Development		300
		STATE TOTAL			280,393
CONTRACTOR TOTAL					648,341
MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Engineering Development		67,751
	Missouri	ARMY	RDTE/Aircraft-Engineering Development		575
					68,326
CONTRACTOR TOTAL					143
MCDONNELL DOUGLAS TRNG SYS	Oklahoma	USAF	RDTE/Aircraft-Engineering Development		41
MERCER UNIVERSITY	Georgia	USAF	RDTE/Aircraft-Engineering Development		1,765
NATIONAL PATENT DEVLPMNT CORP	Florida	NAVY	RDTE/Aircraft-Engineering Development		300
NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development		304
OR CONCEPTS APPLIED	California	USAF	RDTE/Aircraft-Engineering Development		64
PALL CORPORATION	Florida	ARMY	RDTE/Aircraft-Engineering Development		
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Engineering Development		19,996

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AC14 (CONTINUED)					
	CONTRACTOR TOTAL		USAF	RDTE/Aircraft-Engineering Development	\$ 4,006
		STATE TOTAL			24,002
	S T RESEARCH CORPORATION	Georgia	ARMY	RDTE/Aircraft-Engineering Development	305
	SCIENTIFIC MGT ASSOCIATES	Iowa	ARMY	RDTE/Aircraft-Engineering Development	5,006
	SUPPORT SYSTEMS ASSOCIATES				29,312
	TECHNOLOGY INTGRN DEV GROUP	Virginia	NAVY	RDTE/Aircraft-Engineering Development	50
	TELEDYNE INDUSTRIES INC	Maryland	NAVY	RDTE/Aircraft-Engineering Development	531
		New York	USAF	RDTE/Aircraft-Engineering Development	2,044
		Mass	NAVY	RDTE/Aircraft-Engineering Development	247
		California	USAF	RDTE/Aircraft-Engineering Development	85
		Ohio	USAF	RDTE/Aircraft-Engineering Development	1,873
	CONTRACTOR TOTAL				1,963
	THIokol CORPORATION	Utah	USAF	RDTE/Aircraft-Engineering Development	63
	TRACOR APPLIED SCIENCES INC	California	USAF	RDTE/Aircraft-Engineering Development	367
	TRW INC	California	USAF	RDTE/Aircraft-Engineering Development	57-
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Aircraft-Engineering Development	7,980
		Florida	NAVY	RDTE/Aircraft-Engineering Development	3,903
			USAF	RDTE/Aircraft-Engineering Development	353,945
	CONTRACTOR TOTAL				357,849
					365,829
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Engineering Development	1,113
	VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Engineering Development	2,958
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Engineering Development	150
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Engineering Development	53
	R&D TOTAL				2,842,064

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R-D DESCRIPTION	\$
AC15	AEL INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	1,064
	ALLIED SIGNAL AEROSPACE CO	Indiana	USAF	RDTE/Aircraft-Operational Systems Developm	459
	BOEING SIKORSKY LHX JOINT VEN	Conn	ARMY	RDTE/Aircraft-Operational Systems Developm	1,115
	CHRYSLER TECH ARBR SYSTEMS	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	931
	EER SYSTEMS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Operational Systems Developm	7,026
	ELECTRO SOFT INC	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm	39
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	92,958
	GENERAL ELECTRIC COMPANY	Kansas	ARMY	RDTE/Aircraft-Operational Systems Developm	1,821-
		Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	52
	CONTRACTOR TOTAL				1,769-
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Operational Systems Developm	35,011
	ITT CORPORATION	New Jersey	USAF	RDTE/Aircraft-Operational Systems Developm	702
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Aircraft-Operational Systems Developm RDTE/Aircraft-Operational Systems Developm	3 500 16,914
		STATE TOTAL			20,414
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Operational Systems Developm	285
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Aircraft-Operational Systems Developm	100
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Operational Systems Developm	2,572
	SARGENT INDUSTRIES INC	California	NAVY	RDTE/Aircraft-Operational Systems Developm	75
	UNITED TECHNOLOGIES CORP	Florida	NAVY USAF	RDTE/Aircraft-Operational Systems Developm RDTE/Aircraft-Operational Systems Developm	5,207 156-
		STATE TOTAL			5,051
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	110
	UNIVERSITY OF IOWA THE	Iowa	USAF	RDTE/Aircraft-Operational Systems Developm	64
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Operational Systems Developm	1,000
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Operational Systems Developm	1,560
	R&D TOTAL				168,468

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC16	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Aircraft-Management & Support	\$ 235
	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Aircraft-Management & Support	250
	ALCOA COMPOSITES INC	Utah	ARMY	RDTE/Aircraft-Management & Support	32
	ANALYTIC ENGINEERING CO	Nebraska	USAF	RDTE/Aircraft-Management & Support	258
	ANAMET LABORATORIES INC	California	ARMY	RDTE/Aircraft-Management & Support	50
	APTEK INC	Colorado	NAVY	RDTE/Aircraft-Management & Support	47
	ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Aircraft-Management & Support	1,029
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Aircraft-Management & Support	51
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Management & Support	67-
	BERKELEY APPLIED SCI	California	NAVY	RDTE/Aircraft-Management & Support	77
	BTHRLE APPLIED RESEARCH INC	New York	USAF	RDTE/Aircraft-Management & Support	49
	BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Aircraft-Management & Support	250
	CAMBRIDGE SCIENTIFIC INC	Mass	USAF	RDTE/Aircraft-Management & Support	50
	CHRYSLER TECH ARBR SYSTEMS	Texas	USAF	RDTE/Aircraft-Management & Support	784
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Aircraft-Management & Support	50
	EIDETICS INTERNATIONAL INC	California	NAVY	RDTE/Aircraft-Management & Support	223
	FIBER & SENSOR TECHNOLOGIES	Virginia	USAF	RDTE/Aircraft-Management & Support	50
	FLOW RESEARCH INC	Washington	USAF	RDTE/Aircraft-Management & Support	54
	FLUORO CHEM CORP	California	USAF	RDTE/Aircraft-Management & Support	281
	FOSTER MILLER INC	Mass	NAVY	RDTE/Aircraft-Management & Support	57
			USAF	RDTE/Aircraft-Management & Support	559
			STATE TOTAL		616
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Aircraft-Management & Support	4,446
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Management & Support	30
	HAMILTON & ASSOCIATES INC	Nevada	NAVY	RDTE/Aircraft-Management & Support	46
	IBIS TECHNOLOGY CORP	Mass	USAF	RDTE/Aircraft-Management & Support	60

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC16 (CONTINUED)					
	INTEGRATED SENSORS INC	Alabama	ARMY	RDTE/Aircraft-Management & Support	\$ 250
	J W K INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Management & Support	47
		Virginia	USAF	RDTE/Aircraft-Management & Support	250
	CONTRACTOR TOTAL				297
	KDC TECHNOLOGY CORP	California	USAF	RDTE/Aircraft-Management & Support	50
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Aircraft-Management & Support	48
	KOPIN CORPORATION	Mass	USAF	RDTE/Aircraft-Management & Support	50
	LEONARD ASSOC	Penn	NAVY	RDTE/Aircraft-Management & Support	49
	LIGHT HELICOPTER TURBINE ENG	Missouri	ARMY	RDTE/Aircraft-Management & Support	29,203
	LITTON SYSTEMS INC	New York	ARMY	RDTE/Aircraft-Management & Support	710
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Management & Support	2,000
	LOCKHEED AIRCRAFT SERVICE CO	California	USAF	RDTE/Aircraft-Management & Support	492
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Aircraft-Management & Support	50
	MANTECH INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Management & Support	1,236
	MATERIALS ANALYSIS INC	Texas	NAVY	RDTE/Aircraft-Management & Support	49
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Management & Support	400
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Management & Support	395
	MCDONNELL DOUGLAS SPACE SYS CO	California	ARMY	RDTE/Aircraft-Management & Support	971
	MCDONNELL DOUGLAS TRNING SYS	Oklahoma	USAF	RDTE/Aircraft-Management & Support	71
	METROLASER	California	USAF	RDTE/Aircraft-Management & Support	261
	MSNW INC	California	USAF	RDTE/Aircraft-Management & Support	60
	NEW HAMPSHIRE MATERIALS LAB	N.H.	USAF	RDTE/Aircraft-Management & Support	199
	ORINCON CORPORATION	California	NAVY	RDTE/Aircraft-Management & Support	48
	PDI CORP	Maryland	NAVY	RDTE/Aircraft-Management & Support	57

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC16 (CONTINUED)					
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Aircraft-Management & Support	300
	PIASECKI AIRCRAFT CORP	Penn	NAVY	RDTE/Aircraft-Management & Support	29
	PRAXIS TECHNOLOGY CORPORATION	New Jersey	NAVY	RDTE/Aircraft-Management & Support	71
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Aircraft-Management & Support	48
	SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Management & Support	478
	SUPERIOR VACUUM	Minnesota	USAF	RDTE/Aircraft-Management & Support	50
	SUPPORT SERVICES INC	Washington	USAF	RDTE/Aircraft-Management & Support	30-
	SVERDRUP TECHNOLOGY INC	Tennessee	NAVY	RDTE/Aircraft-Management & Support	27
	SYSTEM EXPLORATION INTL	Ohio	USAF	RDTE/Aircraft-Management & Support	50
	TCAM TECHNOLOGY INC	Ohio	USAF	RDTE/Aircraft-Management & Support	250
	TDA RESEARCH INC	Colorado	USAF	RDTE/Aircraft-Management & Support	53
	TECHNICAL RESEARCH ASSOCIATES	Utah	USAF	RDTE/Aircraft-Management & Support	55
	TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	USAF	RDTE/Aircraft-Management & Support	49
	TECHNOLOGY INTGRN DEV GROUP	Mass	ARMY	RDTE/Aircraft-Management & Support	146
	TESCO INC	Tennessee	USAF	RDTE/Aircraft-Management & Support	293
	TRANSMET CORP	Ohio	USAF	RDTE/Aircraft-Management & Support	50
	ULTRAMET	California	USAF	RDTE/Aircraft-Management & Support	196
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Management & Support	727
	VIGYAN INC	Virginia	USAF	RDTE/Aircraft-Management & Support	130
	WAMAX, INC	Washington	USAF	RDTE/Aircraft-Management & Support	50
	R&D TOTAL				48,918
	AC21 A A I CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea	8,400
	A P A OPTICS INC	Minnesota	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	AEGIS RESEARCH	Alabama	USAF	RDTE/Missile and Space Systems-Basic Resea	51

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	AEROJET	California	USAF	RDTE/Missile and Space Systems-Basic Resea	39
	AEROTECH ENGR & RES	Kansas	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea	202
	AMERICAN GNC CORPORATION	California	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	209
	AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	7,248
	BELL HELICOPTER TEXTRON INC	Texas	NAVY	RDTE/Missile and Space Systems-Basic Resea	5,380
	BRITISH AEROSPACE INC	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,666
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Basic Resea	188
	CASE WESTERN RESERVE UNIV	Ohio	USAF	RDTE/Missile and Space Systems-Basic Resea	213
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	COLLEGE OF WILLIAM & MARY	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	COMPUTING DEVICES CANADA LTD	CANADA	NAVY	RDTE/Missile and Space Systems-Basic Resea	337
	COUSINO B L INC	Ohio	USAF	RDTE/Missile and Space Systems-Basic Resea	266
	DAEDALUS RESEARCH INC	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	75-
	DESIGN ANALYSIS ASSOCIATES	Illinois	NAVY	RDTE/Missile and Space Systems-Basic Resea	50
	EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Missile and Space Systems-Basic Resea	177
	FERRANTI INTERNATIONAL	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea	3,588
	FREQUENCY ELECTRONICS INC	New York	USAF	RDTE/Missile and Space Systems-Basic Resea	747
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	222
	GENERAL PNEUMATICS CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea	125
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	242
	HERCULES INCORPORATED	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	16,750
	HUGHES AIRCRAFT COMPANY	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	250-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC21 (CONTINUED)

	California	ARMY	RDTE/Missile and Space Systems-Basic Resea	\$	1,666
		NAVY	RDTE/Missile and Space Systems-Basic Resea		326
		USAF	RDTE/Missile and Space Systems-Basic Resea		100
	STATE TOTAL				2,092
	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,843
	California	USAF	RDTE/Missile and Space Systems-Basic Resea		1,184
	Rhode Isld	NAVY	RDTE/Missile and Space Systems-Basic Resea		59
	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea		61
	Illinois	NAVY	RDTE/Missile and Space Systems-Basic Resea		2,143
	Alabama	ARMY	RDTE/Missile and Space Systems-Basic Resea		50
	California	USAF	RDTE/Missile and Space Systems-Basic Resea		1,666
	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		866
	Miss	USAF	RDTE/Missile and Space Systems-Basic Resea		1,406
	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		36
	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,666
	California	USAF	RDTE/Missile and Space Systems-Basic Resea		800
	Virginia	NAVY	RDTE/Missile and Space Systems-Basic Resea		66
	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea		235
	Virginia	NAVY	RDTE/Missile and Space Systems-Basic Resea		37
	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,540
	Nevada	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,462
	California	USAF	RDTE/Missile and Space Systems-Basic Resea		526
	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,561
	New Mexico	USAF	RDTE/Missile and Space Systems-Basic Resea		1,945
					150
CONTRACTOR TOTAL					
INFORMATION NETWORK SYSTEMS					
INNOVA INC					
K V H INDUSTRIES INC					
KAMAN SCIENCES CORPORATION					
LINDSEY ASSOC					
LOCKHEED MISSILES & SPACE CO					
LOCKHEED SPACE OPERATIONS CO					
LORAL VUGHT SYSTEMS					
MISSISSIPPI STATE UNIVERSITY					
RAYTHEON COMPANY					
RAYTHEON MDTIRNEAN SYSTEMS CO					
ROCKWELL INTERNATIONAL CORP					
S T RESEARCH CORPORATION					
SCIENCE & TECHNOLOGY ASSOC					
SCIENCE APPLICATIONS INTL CORP					
SENSCI CORP					
SIERRA NEVADA CORPORATION					
SPARTA INC					
SYNETICS CORPORATION					
TECH REPS INCORPORATED					

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AC21 (CONTINUED)

TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	\$	23,931
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		288
THIokol CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Basic Resea		887
TORRANCE ADVANCED METALS CORP	California	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,666
UNIVERSITY OF DAYTON	California	USAF	RDTE/Missile and Space Systems-Basic Resea		3,764
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Missile and Space Systems-Basic Resea		62
UNIVERSITY OF SC AT COLUMBIA	S Carolina	USAF	RDTE/Missile and Space Systems-Basic Resea		33
UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Missile and Space Systems-Basic Resea		159
UNIVERSITY OF TEXAS	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		169
UNIVERSITY OF TEXAS AT AUSTIN	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,050
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		3,600
VA POLYTECH INST & ST	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea		60
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea		40
VOUGHT AIRCRAFT	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,666
R&D TOTAL					102,953
AC22 AEROJET	California	USAF	RDTE/Missile and Space Systems-Exploratory		184
ALABAMA CRYOGENIC ENGINEERING	Alabama	NAVY	RDTE/Missile and Space Systems-Exploratory		100
ALLIANT TECHSYSTEMS INC	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory		204
	Minnesota	ARMY	RDTE/Missile and Space Systems-Exploratory		297
CONTRACTOR TOTAL					501
APA OPTICS INC	Minnesota	USAF	RDTE/Missile and Space Systems-Exploratory		500
APD CRYOGENICS INC	Penn	NAVY	RDTE/Missile and Space Systems-Exploratory		190
ATLANTIC RESEARCH CORPORATION	New York	NAVY	RDTE/Missile and Space Systems-Exploratory		50
BP AMERICA INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory		140

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AC22 (CONTINUED)					
	BUTLER UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Exploratory	63
	C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Missile and Space Systems-Exploratory	64
	COMMUNICATIONS SATELLITE CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Exploratory	4,367
	COMPUTER AND CONCEPT ASSOCIATE	California	NAVY	RDTE/Missile and Space Systems-Exploratory	467
	COMPUTER SCIENCES CORPORATION	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	1,562
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Missile and Space Systems-Exploratory	112
	DYNAMIC COMPUTER ARCHITECTURE	Florida	ARMY	RDTE/Missile and Space Systems-Exploratory	28-
	EASTERN NEW MEXICO UNIVERSITY	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	85
	EG&G WASHINGTON ANALYTICAL SVC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	4,298
	ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Exploratory	65
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Missile and Space Systems-Exploratory	209
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	5,439
		Michigan	ARMY	RDTE/Missile and Space Systems-Exploratory	198
	CONTRACTOR TOTAL				5,637
	GENERAL ELECTRIC COMPANY	Penn	ARMY	RDTE/Missile and Space Systems-Exploratory	5,818
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	550
	HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	303
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	162
	HERCULES INCORPORATED	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	138
		Utah	USAF	RDTE/Missile and Space Systems-Exploratory	175
	CONTRACTOR TOTAL				313
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Missile and Space Systems-Exploratory	36,591
			NAVY	RDTE/Missile and Space Systems-Exploratory	62
	STATE TOTAL				36,653

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AC22 (CONTINUED)					
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Exploratory	\$ 680
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	28
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Exploratory	380
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	356
	LORAL AEROSPACE CORP	California	NAVY	RDTE/Missile and Space Systems-Exploratory	344
			USAF	RDTE/Missile and Space Systems-Exploratory	1,693
	STATE TOTAL				2,037
	LORAL CORP	California	ARMY	RDTE/Missile and Space Systems-Exploratory	1,164
	LORAL VOUGHT SYSTEMS	New York	USAF	RDTE/Missile and Space Systems-Exploratory	225
	M M R TECHNOLOGIES INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	217
	M R J INC	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	59
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	425
	MASSACHUSETTS INST OF TECHNOLOG	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	125
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Exploratory	140
			USAF	RDTE/Missile and Space Systems-Exploratory	75
	STATE TOTAL				215
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	44
	MCMASTER UNIVERSITY	CANADA	USAF	RDTE/Missile and Space Systems-Exploratory	71
	METROLASER	California	USAF	RDTE/Missile and Space Systems-Exploratory	1,249
	NATIONAL PATENT DEVLPMNT CORP	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	189
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	148
	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory	130
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	50
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Missile and Space Systems-Exploratory	122
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Exploratory	1,753
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	15,705

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC22 (CONTINUED)

CONTRACTOR TOTAL					
SCIENCE APPLICATIONS INTL CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory	\$	195
SCIENTIFIC RESEARCH ASSOC INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory		15,900
SPIRATEX COMPANY INC	Conn	USAF	RDTE/Missile and Space Systems-Exploratory		368
SRI INTERNATIONAL	Michigan	NAVY	RDTE/Missile and Space Systems-Exploratory		115
THIOKOL CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory		45
TRW INC	Utah	USAF	RDTE/Missile and Space Systems-Exploratory		99
ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Exploratory		200
UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Missile and Space Systems-Exploratory		382
	Florida	USAF	RDTE/Missile and Space Systems-Exploratory		63
		USAF	RDTE/Missile and Space Systems-Exploratory		119
		USAF	RDTE/Missile and Space Systems-Exploratory		252
		USAF	RDTE/Missile and Space Systems-Exploratory		371
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Exploratory		335
UNIVERSITY OF HAWAII	Hawaii	USAF	RDTE/Missile and Space Systems-Exploratory		87
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory		37
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Missile and Space Systems-Exploratory		158
UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Missile and Space Systems-Exploratory		130
UNIVERSITY OF UTAH	Utah	USAF	RDTE/Missile and Space Systems-Exploratory		72
VILLANOVA UNIVERSITY	Penn	NAVY	RDTE/Missile and Space Systems-Exploratory		30
WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Exploratory		133
R&D TOTAL					90,557
AC23 A T S S INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		582
ACT RESEARCH CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		48
ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		1,604

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	ADVANCED DEVICE TECHNOLOGY INC	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 300
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	192
	ADVANCED PHOTONIX INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Advanced De	286
	ADVANCED SCIENCES INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	3,827
			USAF	RDTE/Missile and Space Systems-Advanced De	146
		STATE TOTAL			3,973
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	245
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	255
	AEROJET	California	ARMY	RDTE/Missile and Space Systems-Advanced De	13,889
			USAF	RDTE/Missile and Space Systems-Advanced De	4,538
		STATE TOTAL			18,426
	AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Advanced De	8,703
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	80
	ALLIANT TECHSYSTEMS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	350
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Advanced De	91
	ALPHATECH INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	138
	ALUMINUM COMPANY OF AMERICA	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	500
	AMCOMP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	1,155
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	249
	AMERICAN TELEPHONE & TELG CO	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	412
	ANALOG DEVICES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	1,070
	ANRO ENGINEERING INC	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	55
	APPLIED RESEARCH & ENGRG	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	60
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	435

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	254
	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	53
	APTEK INC	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	353
	ASTROPOWER INC	Delaware	ARMY	RDTE/Missile and Space Systems-Advanced De	741
	ATHENA GROUP INC	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	212
		Virginia	NAVY	RDTE/Missile and Space Systems-Advanced De	74
	CONTRACTOR TOTAL				286
	AURA SYSTEMS	California	USAF	RDTE/Missile and Space Systems-Advanced De	200
	AURORA ASSOCIATES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	125
	AUTOMATED SCIENCES GROUP INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	10,988
	AUTONOMOUS TECHNOLOGIES CORP	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	499
	AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	398
	AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	1,245
	BAAS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,254
	BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	245
		Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De	3,041
	CONTRACTOR TOTAL				3,286
	BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	10,297
	BELTRAN ASSOCIATES INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	BLACK FOREST ENGINEERING, INCO	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	BOEING AEROSPACE OPERATIONS	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De	51,045
		USAF	USAF	RDTE/Missile and Space Systems-Advanced De	22,395
	STATE TOTAL				73,441

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	BOEING COMPANY THE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 2,476
		Kansas	USAF	RDTE/Missile and Space Systems-Advanced De	6,393
		Washington	USAF	RDTE/Missile and Space Systems-Advanced De	61
	CONTRACTOR TOTAL				8,930
	BOOZ ALLEN & HAMILTON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,200
	BREWER SCIENCE INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	176
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	CAMBER CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,168
	CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	238
	CIENCIA INCORPORATED	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	110
	CNS TECHNOLOGY INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	COLEMAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	16,270
	COLSA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	42,244
	CONCEPTUAL SOFTWARE SYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	CONTINUOUS MOLDING INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De	59
	CREARE INC	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De	1,500
	CRYSTAL SYSTEMS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	CRYSTALLUME	California	USAF	RDTE/Missile and Space Systems-Advanced De	67
	CSA ENGINEERING INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	49
	CULHAM LABORATORY	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	CYBERNET SYSTEMS CORP	Michigan	USAF	RDTE/Missile and Space Systems-Advanced De	48
	DEFENSE DIAMOND DEV CO J/V	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	478
	DELTA RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,795
	DELTATEK LIMITED DELTATEK HOUS	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	3,543
	DESE RESEARCH & ENGINEERING	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	379

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	DEVILS LAKE SIOUX TRIBE	N Dakota	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	1,083
			USAF	RDTE/Missile and Space Systems-Advanced De	16,625
			STATE TOTAL		17,708
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	501
	DYNACS ENGINEERING CO INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	52
	DYNETICS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	5,954
	E I C LABORATORIES INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	250
	E I C LABORATORY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	62
			USAF	RDTE/Missile and Space Systems-Advanced De	61
			STATE TOTAL		124
	EARTH TECHNOLOGY CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	5,737
	ECOLE POLYTECHNIQUE	FRANCE	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	EDFA CONSULTANTS	Rhode Isld	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	EHRENPREIS DAVID B	New Jersey	NAVY	RDTE/Missile and Space Systems-Advanced De	252
	ELECTRO-OPTIK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	476
	ELECTRO-OPTICAL SCIENCES INC	New York	USAF	RDTE/Missile and Space Systems-Advanced De	420
	ELECTROMAGNETIC APPLICATIONS.	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	ELECTRON TRANSFER TECHNOLOGIES	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	339
	ENERGY SCIENCE LABORATORIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	273
	ENVIRONMENTAL RES INST OF MICH	California	USAF	RDTE/Missile and Space Systems-Advanced De	468
	EPION CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	33
	ESSEX CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	300
	FAR WEST SENSOR CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De	45
	FASTMAN INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	55

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

FIBER & SENSOR TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	\$	50
FIBER MATERIALS INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De		118
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		100
FLORIDA A & M UNIVERSITY	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		84
FORTECH CORP	New York	USAF	RDTE/Missile and Space Systems-Advanced De		225
FOSTER MILLER INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		388
		USAF	RDTE/Missile and Space Systems-Advanced De		45-
	STATE TOTAL				343
FRAUNHOFER GESELLSCHAFT	GERMANY	NAVY	RDTE/Missile and Space Systems-Advanced De		469
G T DEVICES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		142
GELTECH INC	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		51
GEMINI COMPUTERS INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De		756
GENERAL ATOMICS	California	USAF	RDTE/Missile and Space Systems-Advanced De		253
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		766
GENERAL ELECTRIC COMPANY	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		4,000
	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		1,525
	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		600
	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		55
	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		13,163
CONTRACTOR TOTAL					18,343
GENERAL RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		6,344
	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		926
CONTRACTOR TOTAL					7,270
GENERAL SCIENCES INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		49

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AC23 (CONTINUED)

GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	1,099
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De		409
GORCA SYSTEMS INCORPORATED	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		51
GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		12,529
GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		6,295
GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De		5,470
H M J CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		280
HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		2,971
	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		242
CONTRACTOR TOTAL					3,213
HERCULES INCORPORATED	W Virginia	NAVY	RDTE/Missile and Space Systems-Advanced De		1,000
HONEYWELL INC	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De		224
	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		21,333
	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		5,278
CONTRACTOR TOTAL					26,835
HORIZONS TECHNOLOGY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		49
HOWARD UNIVERSITY	D.C.	ARMY	RDTE/Missile and Space Systems-Advanced De		100
HUGHES AIRCRAFT COMPANY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		43,907
	California	ARMY	RDTE/Missile and Space Systems-Advanced De		49,458
	USAF	RDTE/Missile and Space Systems-Advanced De			27,410
STATE TOTAL					76,869
CONTRACTOR TOTAL					120,776
HYPRES INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		390
I A P RESEARCH INC	Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De		46

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AC23 (CONTINUED)

I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	150
IABG	GERMANY	ARMY	RDTE/Missile and Space Systems-Advanced De		223
IMAGING SCIENCE TECHNOLOGIES	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		257
		USAF	RDTE/Missile and Space Systems-Advanced De		181
STATE TOTAL					438
INDUSTRIAL SENSORS & ACTUATORS	California	ARMY	RDTE/Missile and Space Systems-Advanced De		403
INNOVATION ASSOCIATES	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De		190
INTEGRATED APPLIED PHYSICS	California	ARMY	RDTE/Missile and Space Systems-Advanced De		250
INTEGRATED SYSTEMS INC	Georgia	USAF	RDTE/Missile and Space Systems-Advanced De		124
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		5,586
	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		12,294
CONTRACTOR TOTAL					17,879
INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		1,893
INTERNATIONAL TECHNICAL ASSOC	California	USAF	RDTE/Missile and Space Systems-Advanced De		480
IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		1,059
ISP	California	USAF	RDTE/Missile and Space Systems-Advanced De		291
ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De		68,233
ISRAELI MINISTRY OF DEFENSE	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De		85
JAYCOR	California	ARMY	RDTE/Missile and Space Systems-Advanced De		3,750
JET PROCESS CORPORATION	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		53
JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		142
KAMAN SCIENCES CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		12,862
	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		440
CONTRACTOR TOTAL					13,302

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AC23 (CONTINUED)					
	KBM ENTERPRISES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 50
	KTECH CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	480
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	590
	LASER SCIENCE INC	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	164
	LASERGENICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	99
	LASKER TECHNOLOGY INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	LENTEC CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	47
	LINARES MANAGEMENT ASSOCIATES	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	LITECOM INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	89
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	50
	LITTON SYSTEMS INC	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	230 14,427
		STATE TOTAL			14,657
	LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	4,089
		California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	76,040 1,919
		STATE TOTAL			77,959
	CONTRACTOR TOTAL				82,048
	LORAL AEROSPACE CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De	180
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	366
		CONTRACTOR TOTAL			546
	LORAL CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	3,546
	LORAL VOUGHT SYSTEMS	Arkansas	ARMY	RDTE/Missile and Space Systems-Advanced De	858
		Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	172,713
		CONTRACTOR TOTAL			173,571
	LTV CORPORATION	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	100-

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AC23 (CONTINUED)

M & W MICROFILM SERVICE INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	53
M K GLOBAL MANAGEMENT CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De		51
M S SAPUPPO & ASSOCIATES	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		54
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		48
MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	3,625	
		USAF	RDTE/Missile and Space Systems-Advanced De	10,984	
STATE TOTAL				14,609	
	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	29,274	
CONTRACTOR TOTAL				43,883	
MATERIAL & ELECTROCHEMICAL RES	Arizona	USAF	RDTE/Missile and Space Systems-Advanced De		50
MATERIALS ELECTROCHEMICAL RES	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De		50
MATERIALS MODIFICATION INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		43
MAXDEM INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		350
MAXWELL LABORATORIES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		200
MAYO FOUNDATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De	6,313	
MC DANIEL JOHN L ENTERPRISES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		29
MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		221
	Missouri	NAVY	RDTE/Missile and Space Systems-Advanced De		47
CONTRACTOR TOTAL				269	
MCDONNELL DOUGLAS SPACE SYS CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		190
	California	ARMY	RDTE/Missile and Space Systems-Advanced De		167,393
CONTRACTOR TOTAL					167,583
MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Missile and Space Systems-Advanced De		384
METROLASER	California	ARMY	RDTE/Missile and Space Systems-Advanced De		53

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AC23 (CONTINUED)					
	MEVATEC CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	11,815
	MICROCOM CORPORATION	Penn	NAVY	RDTE/Missile and Space Systems-Advanced De	3,681
	MICROCOSM	California	USAF	RDTE/Missile and Space Systems-Advanced De	188
	MICROELECTRONICS CMPT TECH CORP	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	265
	MINISTRY OF DEFENSE UK	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	3,856
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	190
		New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	868
	CONTRACTOR TOTAL				1,058
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Advanced De	500
	NATIONAL STEEL & SHIPBLDG CO	California	NAVY	RDTE/Missile and Space Systems-Advanced De	150
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	358
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	37,367
		Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	2,529
	CONTRACTOR TOTAL				39,895
	NIMBLE COMPUTER CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	NONVOLATILE ELECTRONICS, INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	NORTH CAROLINA A&T STATE UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	35
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	184
	NORTHROP CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	72
	OPTIMIZATION TECHNOLOGY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	87
	OPTIVISION INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	ORION INTERNATIONAL TECH	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	1,833
	ORTEL CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	PAGE AUTOMATED TELECOM SYSTEMS	California	USAF	RDTE/Missile and Space Systems-Advanced De	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	PARASOFT CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	PAROSCIENTIFIC INC	Washington	NAVY	RDTE/Missile and Space Systems-Advanced De	57
	PHASE IV SYSTEMS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	5,848
	PHASEX CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	240
	PHOTEL INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	383
	PHOTONICS RESEARCH INC	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	500
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,441
	PHYSITRON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,374
	PLEX CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	60
	POLYTECHNIC UNIVERSITY	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	255
	PRECISION FILTERS INC	New York	NAVY	RDTE/Missile and Space Systems-Advanced De	54
	PRODUCTIVITY SOLUTIONS	Rhode Isld	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	PROPULSION RESEARCH INC	Virginia	ARMY NAVY	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	51 35
	STATE TOTAL				86
	PURDUE UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Advanced De	27
	Q SOURCE INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	75
	QUALITY RESEARCH INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	297
	R & D ASSOCIATES	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	79
	RAM SYSTEM GMBH	GERMANY	NAVY	RDTE/Missile and Space Systems-Advanced De	475
	RAYMOND ENGINEERING INC	Conn	NAVY	RDTE/Missile and Space Systems-Advanced De	65
	RAYTHEON COMPANY	Mass	ARMY NAVY	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	49,592 800
	STATE TOTAL				50,392

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AC23 (CONTINUED)					
	CONTRACTOR TOTAL				
	REFRACTORY COMPOSITES INC	N.H.	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 2,500
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	52,892
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	50-
			NAVY	RDTE/Missile and Space Systems-Advanced De	113,228
			USAF	RDTE/Missile and Space Systems-Advanced De	181
					25,056
	STATE TOTAL				138,464
		Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	1,386
	CONTRACTOR TOTAL				139,850
	S K W CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	225
	S S G INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	563
			USAF	RDTE/Missile and Space Systems-Advanced De	355
	STATE TOTAL				918
	S SYSTEMS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	4,774
	SANDIA SYSTEMS, INCORPORATED	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	56
	SARCOS RESEARCH CORP.	Utah	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	45
	SCHMIDT INSTRUMENTS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	385
	SCIENCE & ENGINEERING SERVICES	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,472
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	180
			USAF	RDTE/Missile and Space Systems-Advanced De	497
	STATE TOTAL				677
		New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	67
	CONTRACTOR TOTAL				2,216
	SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	275
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	40

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AC23 (CONTINUED)					
	SCIENTIFIC RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	500
	SECURE COMPUTING TECHNOLOGY CO	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	SIGNATECH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	970
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	75
	SOREQ NUCLEAR RESEARCH CENTER	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De	834
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	275
	SOUTHERN UNIV AG MECH COLLEGE	Louisiana	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	SPACE COMPUTER CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	55
	SPACE DATA CORPORATION	Arizona	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	22,996 5,345
		STATE TOTAL			28,341
	SPACE EXPLORATION ASSOCIATES	Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De	52
	SPACE SYSTEMS ANALYSIS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	SPACE TEC VENTURES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	62
	SPARTA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	6,469
		California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	6,689 4,401
		STATE TOTAL			11,090
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	CONTRACTOR TOTAL				17,659
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Advanced De	132
	SPIRE CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	49
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	1,525
		NAVY		RDTE/Missile and Space Systems-Advanced De	50
		STATE TOTAL			1,575

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC23 (CONTINUED)	CONTRACTOR TOTAL				
	SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Advanced De	1,624
	SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	125
	STRUCTURAL DYNAMICS RES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	1,306
	STRUCTURED MATERIALS INDUSTRIE	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	41
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	SUNOL SCIENCES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	5,477
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	119
	T P L INC	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	326
	TACAN CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	TADIRAN ISRAEL ELECTRONICS IND	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De	131
	TAKOM COMPANY	California	ARMY	RDTE/Missile and Space Systems-Advanced De	3,617
	TEC MASTERS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	78
	TECHNO SCIENCES INC	Maryland	USAF	RDTE/Missile and Space Systems-Advanced De	2,177
	TECHNOLOGY APPLICATIONS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	136
	TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,142
	TECOLOTE RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,775
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,128
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	85,487 1,485 696
	STATE TOTAL				2,181
	TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	30
	TEXTRON INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	830
	THERMACORE INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	220
	THERMOTREX CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,262

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AC23 (CONTINUED)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	\$
THIOKOL CORPORATION							
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De				162
							1,424
	Maryland	USAF	RDTE/Missile and Space Systems-Advanced De				920
							2,849
	Utah	NAVY	RDTE/Missile and Space Systems-Advanced De				1,520
							5,288
CONTRACTOR TOTAL							
TIGTEK INC							
	California	ARMY	RDTE/Missile and Space Systems-Advanced De				46
	California	ARMY	RDTE/Missile and Space Systems-Advanced De				49
	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De				113
TRW INC							
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De				11,005
	California	ARMY	RDTE/Missile and Space Systems-Advanced De				4,063
		USAF	RDTE/Missile and Space Systems-Advanced De				13,552
							17,616
							28,621
STATE TOTAL							
CONTRACTOR TOTAL							
TRYMER COMPANY THE							
	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De				51
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De				50
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De				635
	California	ARMY	RDTE/Missile and Space Systems-Advanced De				75
		USAF	RDTE/Missile and Space Systems-Advanced De				50
							125
STATE TOTAL							
UNISYS CORPORATION							
	Florida	USAF	RDTE/Missile and Space Systems-Advanced De				2,200
UNITED INTERNATIONAL ENGRG							
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De				584
UNITED TECHNOLOGIES CORP							
	Conn	USAF	RDTE/Missile and Space Systems-Advanced De				880
	Florida	USAF	RDTE/Missile and Space Systems-Advanced De				171
							1,051
CONTRACTOR TOTAL							

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 2,183
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	121
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	271
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De	38
			USAF	RDTE/Missile and Space Systems-Advanced De	34
					72
			STATE TOTAL		
	UNIVERSITY OF MARYLAND SYSTEM	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De	29-
	UNIVERSITY OF MISSOURI ROLLA	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	34
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	35
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De	300
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	240
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	729
	VIASAT INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	VOUGHT AIRCRAFT	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	186-
	VSE CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	1,180
	WAGNER DANIEL H ASSOCIATES	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	5,515
	WHEELER CONTRACTING INC	N Dakota	ARMY	RDTE/Missile and Space Systems-Advanced De	2,284
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Missile and Space Systems-Advanced De	1,900
	WOOLLAM J A CO	Nebraska	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	XACTON CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	300
	XEMET INC	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De	194

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

XONTECH INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	570
		USAF	RDTE/Missile and Space Systems-Advanced De		2,396
	STATE TOTAL				2,966
XSIRIUS SUPERCONDUCTIVITY INC.	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		51
R&D TOTAL					1,567,269
AC24 AC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo		450
ADVANCED DIGITAL SYSTEM INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo		443
AEL CROSS SYSTEMS DIV	Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo		100
AEROJET	California	USAF	RDTE/Missile and Space Systems-Engr Develo		20,542
ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo		43
BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo		41
BOEING AEROSPACE OPERATIONS	California	USAF	RDTE/Missile and Space Systems-Engr Develo		3,623
	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo		1,014
					4,637
CONTRACTOR TOTAL					420-
BOEING COMPANY THE	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo		1,200
CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo		36
CONTRAVES USA INC	Florida	NAVY	RDTE/Missile and Space Systems-Engr Develo		156
CROSS SYSTEMS INC	Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo		170
CTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Engr Develo		2,701
DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo		207-
EG&G INC	California	ARMY	RDTE/Missile and Space Systems-Engr Develo		412
EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo		3,000
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Engr Develo		2,320
		NAVY	RDTE/Missile and Space Systems-Engr Develo		5,320
	STATE TOTAL				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC24 (CONTINUED)					
	GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	\$ 20,934
		Penn	USAF	RDTE/Missile and Space Systems-Engr Develo	6,124-
CONTRACTOR TOTAL					14,809
	GEODYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	601
	GTE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	94-
	HARRIS CORPORATION	Florida	NAVY	RDTE/Missile and Space Systems-Engr Develo	935
	HEATH ELECTRONICS MFG	Idaho	NAVY	RDTE/Missile and Space Systems-Engr Develo	26
	HERCULES INCORPORATED	Utah	USAF	RDTE/Missile and Space Systems-Engr Develo	2,586
	HONEYWELL INC	New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	621
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	787
			USAF	RDTE/Missile and Space Systems-Engr Develo	267
STATE TOTAL					1,054
	KAMAN SCIENCES CORPORATION	Colorado	NAVY	RDTE/Missile and Space Systems-Engr Develo	750
		New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	890
CONTRACTOR TOTAL					1,640
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	191
	LITTON SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	261
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	95-
	LOGICON INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	3,675
	LORAL AEROSPACE CORP	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	95,644
	LORAL CORP	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	6,122
		Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	9,533
CONTRACTOR TOTAL					15,655
	LORAL VUGHT SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	156,475
	M D T T INC	Florida	ARMY	RDTE/Missile and Space Systems-Engr Develo	74,881

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AC24 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	39,036
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Engr Develo	1,576
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Missile and Space Systems-Engr Develo	73-
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	243
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Engr Develo	75
	NORTHROP CORPORATION	California	ARMY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	116,800 12,017-
		STATE TOTAL			104,783
	PARAMAX SYSTEMS CORP	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	291
		New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	3,013
		Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	74
					3,378
	CONTRACTOR TOTAL				48,116 20,571
	RAYTHEON COMPANY	Mass	ARMY NAVY	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	68,687
		STATE TOTAL			247
		Tennessee	NAVY	RDTE/Missile and Space Systems-Engr Develo	68,934
	CONTRACTOR TOTAL				185
	RAYTHEON MIDDLE EAST SYSTEMS CO	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	22,864
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	3,558
		Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo	26,422
	CONTRACTOR TOTAL				302
	ROYAL NORWEGIAN NAVAL MATERIAL	NORWAY	NAVY	RDTE/Missile and Space Systems-Engr Develo	84
	SARGENT CONTROLS	Arizona	NAVY	RDTE/Missile and Space Systems-Engr Develo	510
	SIPPICAN INC	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	252
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	

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AC24 (CONTINUED)					
TASC		Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	450
TECOLOTE RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	582	
TEXAS INSTRUMENT M MARIETTA JV	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	109,921	
TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Missile and Space Systems-Engr Develo	26,554	
		USAF	RDTE/Missile and Space Systems-Engr Develo	4,033	
	STATE TOTAL			30,587	
THIOLKOL CORPORATION	Utah	NAVY	RDTE/Missile and Space Systems-Engr Develo	200	
		USAF	RDTE/Missile and Space Systems-Engr Develo	13,939	
	STATE TOTAL			14,139	
TRACOR INC	Texas	USAF	RDTE/Missile and Space Systems-Engr Develo	16,000	
TRW INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	143,234	
	Nebraska	USAF	RDTE/Missile and Space Systems-Engr Develo	362	
	STATE TOTAL			143,596	
UNISYS CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	138	
UNITED INTERNATIONAL ENGRG	New Mexico	ARMY	RDTE/Missile and Space Systems-Engr Develo	1,142	
VITRO CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	3,092	
WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	41-	
		USAF	RDTE/Missile and Space Systems-Engr Develo	9,885-	
	STATE TOTAL			9,926-	
R&D TOTAL				959,914	
AC25 AEROJET	California	USAF	RDTE/Missile and Space Systems-Op Systems	462	
AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Op Systems	930	
	Marshall I	ARMY	RDTE/Missile and Space Systems-Op Systems	2,023	
				2,952	
CONTRACTOR TOTAL				764-	
BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Op Systems		

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 Operations and Reports

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC25 (CONTINUED)					
	CONTEL CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	16,348
		Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,557
	CONTRACTOR TOTAL				17,905
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Op Systems	33
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Missile and Space Systems-Op Systems	163,102
	GTE GOVERNMENT SYSTEMS CORP	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	2,014
	HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems	452
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Missile and Space Systems-Op Systems	4,223
	INFOTEC DEVELOPMENT INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	3,676
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	2,016
	INTERSTATE ELECTRONICS CORP	California	NAVY	RDTE/Missile and Space Systems-Op Systems	161
	ISVS SECURITY SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,799
	JWP INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	490
	KAMAN SCIENCES CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	1,063
	KDI PRECISION PRODUCTS INC	Ohio	NAVY	RDTE/Missile and Space Systems-Op Systems	113
	KEYSTONE COMPUTER ASSOCIATES	Maryland	NAVY	RDTE/Missile and Space Systems-Op Systems	34
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	1,074,879
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Op Systems	52,732
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems	5,112
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	287
	ORION INTERNATIONAL TECH	New Mexico	USAF	RDTE/Missile and Space Systems-Op Systems	42
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Op Systems	4,710
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Missile and Space Systems-Op Systems	63
		Iowa	USAF	RDTE/Missile and Space Systems-Op Systems	644

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC25 (CONTINUED)					
	CONTRACTOR TOTAL				
	SRS TECHNOLOGIES	Alabama	USAF	RDTE/Missile and Space Systems-Op Systems	707
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems	33
	SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems	58
		Mass	USAF	RDTE/Missile and Space Systems-Op Systems	2,203
	CONTRACTOR TOTAL				338
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	2,541
	VITRO CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Op Systems	2,325
	VRC CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	67
	R&D TOTAL				4,563
	AC26 A T S S INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	1,347,786
	ACCURATE AUTOMATION CORP	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	491
	ALPHATECH INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	AMERICAN COMPOSITE TECHNOLOGY	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	ANALYSIS CONSULTANTS	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	222
	ARIAS RESEARCH ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	70
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	123
	CSA ENGINEERING INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	578
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	193
	ELECTRIC PROPULSION LABORATORY	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	250
	ELECTRO-OPTIK CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	240
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	121
					238

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC26 (CONTINUED)					
	HERSH ACOUSTICAL ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	46
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	190
	HYPERSONICS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	370
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	280
	INTERMAGNETICS GENERAL CORP	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	356
		Florida	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	2,600
	CONTRACTOR TOTAL				2,956
	MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	161
	MIDWEST RESEARCH TECHNOLOGIES	Wisconsin	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	300
	ORBITAL TECHNOLOGIES CORP	Wisconsin	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	65
	PRC INC	Virginia	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	223
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	330
	SOFTWARE AND ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	428
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	150
	SRS TECHNOLOGIES	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	290
	SUNPOWER INC	Ohio	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	28
		Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	1,284
		Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	131
		Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	73
	CONTRACTOR TOTAL				1,516
	TACAN CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	TASC	Mass	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	266

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC26	(CONTINUED)				
	TCI INTERNATIONAL INC	California	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	400
	VITRO CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	663
	R&D TOTAL				11,504
AC31	ACTRAN SYSTEMS INC	Florida	NAVY	RDTE/Ships-Basic Research	60
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Ships-Basic Research	50
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Ships-Basic Research	672
	ANADAC INC	Virginia	NAVY	RDTE/Ships-Basic Research	100
	ASPEN SYSTEMS INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	486
	AVONDALE INDUSTRIES INC	Texas	NAVY	RDTE/Ships-Basic Research	50
	BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Ships-Basic Research	55
	BEND RESEARCH INC	Oregon	NAVY	RDTE/Ships-Basic Research	62
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Ships-Basic Research	50
	BUSINESS & ENGINEERING TECH SV	Rhode Isld	NAVY	RDTE/Ships-Basic Research	44
	CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Ships-Basic Research	57
	CREARE INC	N.H.	NAVY	RDTE/Ships-Basic Research	50
	D A I INC	Maryland	NAVY	RDTE/Ships-Basic Research	49
	DECISION DYNAMICS INC	Maryland	NAVY	RDTE/Ships-Basic Research	43
	DEPARTMENT OF COMMERCE	Mass	NAVY	RDTE/Ships-Basic Research	125
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Ships-Basic Research	145
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ships-Basic Research	53
	GROVE ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Basic Research	40
	INNOVATIVE TECHNOLOGY ASSOC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Ships-Basic Research	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC31 (CONTINUED)

LAQUE CTR FOR CORROSION TECH	N Carolina	NAVY	RDTE/Ships-Basic Research	\$	401
LOGIX CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research		46
MANSOUR ENGINEERING INC	California	NAVY	RDTE/Ships-Basic Research		46
METRON INC	Virginia	NAVY	RDTE/Ships-Basic Research		50
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Basic Research		101
OMNITEK INC	Virginia	NAVY	RDTE/Ships-Basic Research		50
OPTIMUM STRUCTURAL DESIGN INC	Maryland	NAVY	RDTE/Ships-Basic Research		50
OPTIPHASE INC	California	NAVY	RDTE/Ships-Basic Research		50
ORINCON CORPORATION	California	NAVY	RDTE/Ships-Basic Research		549
	Hawaii	NAVY	RDTE/Ships-Basic Research		49
CONTRACTOR TOTAL					598
PASKOWITZ ASSOCIATES	Virginia	NAVY	RDTE/Ships-Basic Research		70
PHOENIX DIGITAL CORPORATION	Arizona	NAVY	RDTE/Ships-Basic Research		49
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Ships-Basic Research		101
PROMETHEUS INC	Rhode Isld	NAVY	RDTE/Ships-Basic Research		60
R G S ASSOCIATES INC	Virginia	NAVY	RDTE/Ships-Basic Research		50
RADIX SYSTEMS INCORPORATED	Maryland	NAVY	RDTE/Ships-Basic Research		50
REKENTHALER TECHNOLOGY ASSOC	Virginia	NAVY	RDTE/Ships-Basic Research		50
RESEARCH INTERNATIONAL INC	Washington	NAVY	RDTE/Ships-Basic Research		49
SATELLITE TECHNOLOGICAL SVCS	Maryland	NAVY	RDTE/Ships-Basic Research		48
SEAKAY MANAGEMENT CORP	Conn	NAVY	RDTE/Ships-Basic Research		100
SEAMORE INC	Florida	NAVY	RDTE/Ships-Basic Research		49
SENTEL CORP	Virginia	NAVY	RDTE/Ships-Basic Research		50
SIGMA GAMA LAMBDA INCORPORATED	Maryland	NAVY	RDTE/Ships-Basic Research		52

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC31 (CONTINUED)					
	SONALYSTS INC	Conn	NAVY	RDTE/Ships-Basic Research	135
	STANLEY ASSOCIATES INC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Ships-Basic Research	100
	SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Ships-Basic Research	497
	SYSTEMS ENGINEERING ASSOCIATES	Rhode Isld	NAVY	RDTE/Ships-Basic Research	50
	TDA RESEARCH INC	Colorado	NAVY	RDTE/Ships-Basic Research	58
	TIBURON SYSTEMS INC	California	NAVY	RDTE/Ships-Basic Research	50
	TITANIUM TECHNOLOGIES INC	Texas	NAVY	RDTE/Ships-Basic Research	65
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Ships-Basic Research	50
	UES INC	Ohio	NAVY	RDTE/Ships-Basic Research	48
	UNITED STATES DEPT OF ENERGY	Tennessee	NAVY	RDTE/Ships-Basic Research	200
	VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Ships-Basic Research	50
	VIASAT INC	California	NAVY	RDTE/Ships-Basic Research	50
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Ships-Basic Research	101
	WESTINGHOUSE ELECTRIC CORP	Ohio	ARMY	RDTE/Ships-Basic Research	1,000
	R&D TOTAL				7,012
AC32 A A I CORPORATION					
	ADVANCED MARINE ENTERPRISES	Maryland	NAVY	RDTE/Ships-Exploratory Development	129
	ADVANCED TECHNOLOGY & RESEARCH	Virginia	NAVY	RDTE/Ships-Exploratory Development	1,900
	ALUMINUM COMPANY OF AMERICA	Maryland	NAVY	RDTE/Ships-Exploratory Development	199
	ANALYTIC POWER CORP	Penn	NAVY	RDTE/Ships-Exploratory Development	140
	ARTECH CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	49
	ATLANTIC RESEARCH CORPORATION	Virginia	NAVY	RDTE/Ships-Exploratory Development	3,291
	BARRON ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	11,479
		Virginia	NAVY	RDTE/Ships-Exploratory Development	94

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC32 (CONTINUED)					
	BROWN UNIVERSITY	Rhode Isld	NAVY	RDTE/Ships-Exploratory Development	50
	CASDE CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	344
	CHICAGO BRIDGE & IRON CO	Illinois	NAVY	RDTE/Ships-Exploratory Development	118
	CREARE INC	N.H.	NAVY	RDTE/Ships-Exploratory Development	250
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,517
	ENGINEERING CMPT OPTECNOMICS	Maryland	NAVY	RDTE/Ships-Exploratory Development	97
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	631
	FRACTURE TECHNOLOGY ASSOCIATES	Penn	NAVY	RDTE/Ships-Exploratory Development	40
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Exploratory Development	211
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Ships-Exploratory Development	242
	I A P RESEARCH INC	Ohio	NAVY	RDTE/Ships-Exploratory Development	54
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	8,795
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Ships-Exploratory Development	70
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Exploratory Development	235
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	134
	MASSACHUSETTS INST OF TECHNOLOG	Mass	NAVY	RDTE/Ships-Exploratory Development	30
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Exploratory Development	87
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Ships-Exploratory Development	170
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Ships-Exploratory Development	101
	SCIFERS THOMAS INC	California	NAVY	RDTE/Ships-Exploratory Development	766
	SEAWARD INTERNATIONAL	Virginia	NAVY	RDTE/Ships-Exploratory Development	518
	SOCIETE GENERALE DES TAPIS SA	GERMANY	NAVY	RDTE/Ships-Exploratory Development	2,826
	SPD TECHNOLOGIES INC	Penn	NAVY	RDTE/Ships-Exploratory Development	491
	TECHNOLOGY FINANCING INC	Virginia	NAVY	RDTE/Ships-Exploratory Development	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC32 (CONTINUED)

TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Ships-Exploratory Development	\$	140
TRACOR APPLIED SCIENCES INC	Maryland	NAVY	RDTE/Ships-Exploratory Development		680
UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Ships-Exploratory Development		60
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Ships-Exploratory Development		130
VECTOR RESEARCH COMPANY INC	California	NAVY	RDTE/Ships-Exploratory Development		33-
	Penn	NAVY	RDTE/Ships-Exploratory Development		1,100
					1,067
					37,184

CONTRACTOR TOTAL

R&D TOTAL

AC33 A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development		792
APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Advanced Development		606
APPLIED LEARNING INTERNATIONAL	Georgia	NAVY	RDTE/Ships-Advanced Development		186
APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Ships-Advanced Development		340
AURORA TECHNOLOGY CORPORATION	New York	NAVY	RDTE/Ships-Advanced Development		50
BRUEL & KJAER INSTRUMENTS INC	Mass	NAVY	RDTE/Ships-Advanced Development		125
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Ships-Advanced Development		218
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Advanced Development		795
GAMRY INSTRUMENTS INC	Penn	NAVY	RDTE/Ships-Advanced Development		34
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Advanced Development		1,475
GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development		9,050
	New York	NAVY	RDTE/Ships-Advanced Development		161,603
					170,653

CONTRACTOR TOTAL

GIBBS & COX INC	New York	NAVY	RDTE/Ships-Advanced Development		529
INGERSOLL-RAND COMPANY	New Jersey	NAVY	RDTE/Ships-Advanced Development		800
LIFE CYCLE ENGINEERING INC	S Carolina	NAVY	RDTE/Ships-Advanced Development		732

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AC33 (CONTINUED)

MANTECH INTERNATIONAL CORP	New Mexico	NAVY	RDTE/Ships-Advanced Development	\$	947
	Virginia	NAVY	RDTE/Ships-Advanced Development		55
CONTRACTOR TOTAL					1,002
MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Advanced Development		132
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Advanced Development		41
NATIVE AMERICAN CONSULTANTS	D.C.	NAVY	RDTE/Ships-Advanced Development		4,542
NEWPORT NEWS SHPBUILDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Advanced Development		1,138
NORTHWEST RESEARCH ASSOC JV	Washington	NAVY	RDTE/Ships-Advanced Development		588
OCEAN SYSTEMS RESEARCH INC	Maryland	NAVY	RDTE/Ships-Advanced Development		50
PARAMAX SYSTEMS CORP	New York	NAVY	RDTE/Ships-Advanced Development		2,750
RAYTHEON COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development		57
RESEARCH MANAGEMENT CONS	Virginia	NAVY	RDTE/Ships-Advanced Development		2,690
SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development		154
SPARTON CORPORATION	Michigan	NAVY	RDTE/Ships-Advanced Development		2,431
TRACOR APPLIED SCIENCES INC	Maryland	NAVY	RDTE/Ships-Advanced Development		45
VECTOR RESEARCH COMPANY INC	Georgia	NAVY	RDTE/Ships-Advanced Development		147
	Maryland	NAVY	RDTE/Ships-Advanced Development		3,843
CONTRACTOR TOTAL					3,990
WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Ships-Advanced Development		25,764
	Penn	NAVY	RDTE/Ships-Advanced Development		227,695
CONTRACTOR TOTAL					253,459
R&D TOTAL					450,404
AC34 CASDE CORPORATION	Virginia	NAVY	RDTE/Ships-Engineering Development		2,515
DATA-DESIGN LABORATORIES INC	Idaho	NAVY	RDTE/Ships-Engineering Development		81

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AC34	(CONTINUED)				
	CONTRACTOR TOTAL				\$
	DRAPER CHARLES STARK LAB INC	Virginia	NAVY	RDTE/Ships-Engineering Development	2,205
	E M L RESEARCH	Mass	NAVY	RDTE/Ships-Engineering Development	2,286
	GENERAL DYNAMICS CORPORATION	Mass	NAVY	RDTE/Ships-Engineering Development	150
		California	NAVY	RDTE/Ships-Engineering Development	142
		Conn	NAVY	RDTE/Ships-Engineering Development	13,285
		Virginia	NAVY	RDTE/Ships-Engineering Development	42,956
	CONTRACTOR TOTAL				855
	GOODRICH B F COMPANY THE	Florida	NAVY	RDTE/Ships-Engineering Development	56,896
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Ships-Engineering Development	188
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Ships-Engineering Development	1,700
	LIBRASCOPE CORPORATION	California	NAVY	RDTE/Ships-Engineering Development	3,603
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Engineering Development	175
	NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	NAVY	RDTE/Ships-Engineering Development	28
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Ships-Engineering Development	3,509
	SPERRY MARINE INC	Virginia	NAVY	RDTE/Ships-Engineering Development	50
	SYSTEM PLANNING CORPORATION	California	NAVY	RDTE/Ships-Engineering Development	500
	T CARROLL ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Engineering Development	742
	VECTOR RESEARCH COMPANY INC	California	NAVY	RDTE/Ships-Engineering Development	50
		Idaho	NAVY	RDTE/Ships-Engineering Development	100
		Virginia	NAVY	RDTE/Ships-Engineering Development	200
	CONTRACTOR TOTAL				859
	R&D TOTAL				1,159
AC35	CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY	RDTE/Ships-Op Systems Development	73,693
					54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC35 (CONTINUED)					
	DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Ships-Op Systems Development	61
	E M L RESEARCH	Mass	NAVY	RDTE/Ships-Op Systems Development	350
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Cp Systems Development	5,191
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Op Systems Development	200
	GEO-CENTERS INC	Mass	NAVY	RDTE/Ships-Op Systems Development	100
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Ships-Op Systems Development	34
	INNERSPACE TECHNOLOGY INC	New Jersey	NAVY	RDTE/Ships-Op Systems Development	30
	LEXA INTERNATIONAL CORPORATION	Mass	NAVY	RDTE/Ships-Op Systems Development	1,993
	OCEAN DATA EQUIPMENT CORP	Mass	NAVY	RDTE/Ships-Op Systems Development	38
	SIPPICAN INC	Mass	NAVY	RDTE/Ships-Op Systems Development	47
	SPEARS PROF ENVRN ARCH RS SV	Georgia	NAVY	RDTE/Ships-Op Systems Development	70
	TECHNOLOGY FINANCING INC	Virginia	NAVY	RDTE/Ships-Op Systems Development	35-
	TELOGY INC	California	NAVY	RDTE/Ships-Op Systems Development	40
	UNITEC SYSTEMS INC	California	NAVY	RDTE/Ships-Op Systems Development	37
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Op Systems Development	5,814
	VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Op Systems Development	150
	R&D TOTAL				14,175
AC36	ATACS CORPORATION	Virginia	NAVY	RDTE/Ships-Management & Support	158
	CBI NA CON INC	Georgia	NAVY	RDTE/Ships-Management & Support	1,068
	GENERAL ELECTRIC COMPANY	Florida	NAVY	RDTE/Ships-Management & Support	385
	PETERSON BUILDERS INC	Wisconsin	NAVY	RDTE/Ships-Management & Support	438
	S F A INC	Maryland	NAVY	RDTE/Ships-Management & Support	177
	SYSTEM PLANNING CORPORATION	Virginia	NAVY	RDTE/Ships-Management & Support	1,066
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Ships-Management & Support	2,591

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(AMOUNTS IN THOUSANDS)

R&D CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL				
AC41 GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	5,883
GENERAL DYNAMICS FMC CORP JV	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	168
GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	60
GONZALEZ DESIGN ENGRG CO	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	168
GOODYEAR TIRE & RUBBER CO THE	Ohio	ARMY	RDTE/Tank - Automotive-Basic Research	142
LICA SYSTEMS INC	Virginia	ARMY	RDTE/Tank - Automotive-Basic Research	84
PRINCETON SCIENTIFIC INSTRS	New Jersey	ARMY	RDTE/Tank - Automotive-Basic Research	66
VECTOR RESEARCH COMPANY INC	W Virginia	NAVY	RDTE/Tank - Automotive-Basic Research	77
R&D TOTAL				278
R&D TOTAL				
AC42 ADIABATICS INCORPORATED	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	1,042
ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	100
AUTOMATED ANALYSIS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	367
AVCO CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	98
BENTHOS INC	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	313
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	48
CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Tank - Automotive-Exploratory Develop	201
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	94
CARNEGIE-MELLON UNIVERSITY	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	697
CATERPILLAR INC	Illinois	ARMY	RDTE/Tank - Automotive-Exploratory Develop	772
COLSA INC	Alabama	ARMY	RDTE/Tank - Automotive-Exploratory Develop	250
CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	275
CYBERNET SYSTEMS CORP	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	1,674
DAMILIC CORP	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	403
DEERE & COMPANY	New Jersey	NAVY	RDTE/Tank - Automotive-Exploratory Develop	47
				10,619

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AC42 (CONTINUED)					
	DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	80
	DIESEL PROPULSION, SA	FRANCE	ARMY	RDTE/Tank - Automotive-Exploratory Develop	457
	DYNETICS INC	Alabama	ARMY	RDTE/Tank - Automotive-Exploratory Develop	245
	EASTPORT INTERNATIONAL INC	Maryland	NAVY	RDTE/Tank - Automotive-Exploratory Develop	49
	FMC CORPORATION	California	NAVY	RDTE/Tank - Automotive-Exploratory Develop	7,232
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	41,402
			NAVY	RDTE/Tank - Automotive-Exploratory Develop	7,815
			STATE TOTAL		49,217
	JJM SYSTEMS INC	Penn	NAVY	RDTE/Tank - Automotive-Exploratory Develop	784
	LANDMARK MANUFACTURING CORP	Missouri	ARMY	RDTE/Tank - Automotive-Exploratory Develop	26
	MASCO CORPORATION	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	719
	MCDONNELL DOUGLAS CORPORATION	Missouri	ARMY	RDTE/Tank - Automotive-Exploratory Develop	521
	MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	170
	MICHIGAN TECHNOLOGICAL UNIV	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	869
	NORTHROP CORPORATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	53
	ODETICS INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	29
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	485
	PHOTONICS CORP	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	126
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	243
	R C ASSOCIATES	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	41
	REDZONE ROBOTICS INC	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	477
	SURFACES RESEARCH AND APPLICAT	Kansas	ARMY	RDTE/Tank - Automotive-Exploratory Develop	48
	SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	207
	TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	76

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC42 (CONTINUED)					
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	190
	TRANSITIONS RESEARCH CORP	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	119
	VIASAT INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	250
	R&D TOTAL				78,670
AC43	A A I CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Advanced Development	294
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Tank - Automotive-Advanced Development	300
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Tank - Automotive-Advanced Development	285
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	370
	FMC CORPORATION	California	ARMY	RDTE/Tank - Automotive-Advanced Development	29,622
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	1,386
	GENERAL DYNAMICS FMC CORP JV	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	4,656
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Tank - Automotive-Advanced Development	148
	LORAL VUGHT SYSTEMS	Texas	ARMY	RDTE/Tank - Automotive-Advanced Development	833
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	248
	R&D TOTAL				38,140
AC44	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	378
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Tank - Automotive-Engr Development	50
	CASDE CORPORATION	California	NAVY	RDTE/Tank - Automotive-Engr Development	2,276
	FMC CORPORATION	California	ARMY	RDTE/Tank - Automotive-Engr Development	34,975
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	51,780
	GENERAL DYNAMICS FMC CORP JV	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	69,801
	GENERAL ELECTRIC COMPANY	Vermont	ARMY	RDTE/Tank - Automotive-Engr Development	9,154
	GONZALEZ DESIGN ENGRG CO	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	49
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Tank - Automotive-Engr Development	250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC44 (CONTINUED)					
	KINETIC SYSTEMS	California	ARMY	RDTE/Tank - Automotive-Engr Development	250
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Engr Development	639
	NIEHOFF C E & CO INC	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	219
	NORTHERN INDUSTRIAL SERVICES	New York	ARMY	RDTE/Tank - Automotive-Engr Development	728
	OSHKOSH TRUCK CORP	Wisconsin	ARMY	RDTE/Tank - Automotive-Engr Development	650
	PENTASTAR ELECTRONICS INC	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	3,189
	PHYSICS MATHEMATICS & COMPUTER	New Mexico	ARMY	RDTE/Tank - Automotive-Engr Development	306
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Tank - Automotive-Engr Development	511
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	71
	SPEARS ASSOCIATES INC	Mass	NAVY	RDTE/Tank - Automotive-Engr Development	69
	SUDBURY INC	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	95
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	117,180
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	671
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Engr Development	863
	WILCOX JOHN P	Ohio	ARMY	RDTE/Tank - Automotive-Engr Development	60
	R&D TOTAL				294,215
AC45	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,855
	DETROIT DIESEL CORP	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	265
	HARSCO CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Op Systems Developm	9,108
	MASCO CORPORATION	New York	ARMY	RDTE/Tank - Automotive-Op Systems Developm	135
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	943
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,080
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,910
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	40

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					15,335
AC46	DCS CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Management & Suppor	600
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Tank - Automotive-Management & Suppor	812
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Tank - Automotive-Management & Suppor	1,150
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Management & Suppor	6,335
R&D TOTAL					8,898
AC51	ABTECH CORPORATION	Virginia	ARMY	RDTE/Weapons-Basic Research	50
	ALLIANT TECHSYSTEMS INC	Minnesota	USAF	RDTE/Weapons-Basic Research	649
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Weapons-Basic Research	62
	DYNA EAST CORPORATION	Penn	USAF	RDTE/Weapons-Basic Research	48
	E M L RESEARCH	Mass	NAVY	RDTE/Weapons-Basic Research	56
	ILLINOIS INST OF TECH	Illinois	ARMY	RDTE/Weapons-Basic Research	146
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Weapons-Basic Research	232
	MARTINGALE RESEARCH CORP	Texas	ARMY	RDTE/Weapons-Basic Research	300
	MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Weapons-Basic Research	29
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Basic Research	30
	NORTH CAROLINA A&T FOUND	N Carolina	ARMY	RDTE/Weapons-Basic Research	487
	OPTICS 1 INC	California	USAF	RDTE/Weapons-Basic Research	283
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Weapons-Basic Research	95
	POINT INDUSTRIES CORP	New York	ARMY	RDTE/Weapons-Basic Research	224
	QUANTIC INDUSTRIES INC	California	USAF	RDTE/Weapons-Basic Research	48
	R & D ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Basic Research	73
	REMINGTON ARMS COMPANY INC	New York	ARMY	RDTE/Weapons-Basic Research	218
	ROCKWELL INTERNATIONAL CORP	Georgia	ARMY	RDTE/Weapons-Basic Research	446
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Basic Research	39

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC51 (CONTINUED)

SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Basic Research	\$	144
T P L INC	New Mexico	ARMY	RDTE/Weapons-Basic Research		108
TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Weapons-Basic Research		1,289
TECHNO SCIENCES INC	Maryland	ARMY	RDTE/Weapons-Basic Research		50
TPL COMMUNICATIONS	New Mexico	USAF	RDTE/Weapons-Basic Research		56
UNIVERSITY OF DETROIT MERCY	Michigan	ARMY	RDTE/Weapons-Basic Research		97
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Basic Research		338-
UNIVERSITY OF TEXAS AT AUSTIN	Texas	ARMY	RDTE/Weapons-Basic Research		550
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Basic Research		6,481
ZEREN RESEARCH	New Jersey	ARMY	RDTE/Weapons-Basic Research		54
R&D TOTAL					12,004
AC52 A A I CORPORATION	Maryland	USAF	RDTE/Weapons-Exploratory Development		370
AEROSPACE CORP INC	California	USAF	RDTE/Weapons-Exploratory Development		50
ALLIANT TECHSYSTEMS INC	Minnesota	USAF	RDTE/Weapons-Exploratory Development		437
	Wisconsin	NAVY	RDTE/Weapons-Exploratory Development		559
CONTRACTOR TOTAL					996
APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development		923
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Exploratory Development		135
AVCO CORPORATION	Mass	ARMY	RDTE/Weapons-Exploratory Development		8,500
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Weapons-Exploratory Development		67
		USAF	RDTE/Weapons-Exploratory Development		300
STATE TOTAL					367
BDM INTERNATIONAL INC	Alabama	NAVY	RDTE/Weapons-Exploratory Development		131
BOEING COMPANY THE	Washington	USAF	RDTE/Weapons-Exploratory Development		45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AC52 (CONTINUED)					
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Weapons-Exploratory Development	101
		Virginia	USAF	RDTE/Weapons-Exploratory Development	49
	CONTRACTOR TOTAL				150
	COLORADO SEMINARY	Colorado	NAVY	RDTE/Weapons-Exploratory Development	890
	COMPUTATIONAL MECHANICS CORP	Tennessee	ARMY	RDTE/Weapons-Exploratory Development	294
	DEFENSE DIAMOND DEV CO J/V	Mass	NAVY	RDTE/Weapons-Exploratory Development	178
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Exploratory Development	1,040
	DYNACS ENGINEERING CO INC	Florida	USAF	RDTE/Weapons-Exploratory Development	713
	ELECTRO-OPTIK CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	98
	ENSCO INC	Virginia	USAF	RDTE/Weapons-Exploratory Development	250
	FIGURE INDUSTRIES INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	130
	FMC CORPORATION	Minnesota	ARMY	RDTE/Weapons-Exploratory Development	696
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Exploratory Development	1,616
	GENERAL ATOMICS	California	ARMY	RDTE/Weapons-Exploratory Development	289
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	418
	CONTRACTOR TOTAL				707
	GENERAL ELECTRIC COMPANY	Vermont	ARMY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	1,504 521
	STATE TOTAL				2,025
	HARRIS CORPORATION	Florida	USAF	RDTE/Weapons-Exploratory Development	155
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Exploratory Development	1,968
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development	88
	JAYCOR	California	USAF	RDTE/Weapons-Exploratory Development	95
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC52 (CONTINUED)

LANDEC CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	\$	245
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Exploratory Development		183
LORAL CORP	Arizona	USAF	RDTE/Weapons-Exploratory Development		1,517
	California	NAVY	RDTE/Weapons-Exploratory Development		8,748
					10,265
CONTRACTOR TOTAL					
LORAL VOUGHT SYSTEMS	Texas	ARMY	RDTE/Weapons-Exploratory Development		759
MACH I INC	Penn	USAF	RDTE/Weapons-Exploratory Development		224
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Weapons-Exploratory Development		123
	Florida	ARMY	RDTE/Weapons-Exploratory Development		300
		NAVY	RDTE/Weapons-Exploratory Development		28
STATE TOTAL					328
	Maryland	NAVY	RDTE/Weapons-Exploratory Development		115-
CONTRACTOR TOTAL					336
MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Exploratory Development		2,884
	Virginia	USAF	RDTE/Weapons-Exploratory Development		240
CONTRACTOR TOTAL					3,124
MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Exploratory Development		611
MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Weapons-Exploratory Development		517
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development		1,003
	New Mexico	ARMY	RDTE/Weapons-Exploratory Development		160
		USAF	RDTE/Weapons-Exploratory Development		586
STATE TOTAL					745
CONTRACTOR TOTAL					1,748
MOTOROLA INC	Arizona	USAF	RDTE/Weapons-Exploratory Development		8,186
NEW MEXICO INST OF MIN TCHNLGY	New Mexico	NAVY	RDTE/Weapons-Exploratory Development		1,244

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC52 (CONTINUED)					
	NOMURA ENTERPRISE INC	New Jersey	ARMY	RDTE/Weapons-Exploratory Development	\$ 400
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Weapons-Exploratory Development	31
	OPTO-KNOWLEDGE SYSTEMS INC	California	USAF	RDTE/Weapons-Exploratory Development	471
	ORLANDO TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Exploratory Development	212
	PAI RESEARCH LTD	Maryland	USAF	RDTE/Weapons-Exploratory Development	50
	PARADIGM INC	Virginia	USAF	RDTE/Weapons-Exploratory Development	48
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development	270
	POWER SPECTRA INC	California	USAF	RDTE/Weapons-Exploratory Development	56
	PULSE SCIENCES INC	California	NAVY	RDTE/Weapons-Exploratory Development	1,026
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Exploratory Development	30
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	2,056
	CONTRACTOR TOTAL				2,086
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Weapons-Exploratory Development	449
			USAF	RDTE/Weapons-Exploratory Development	737
	STATE TOTAL				1,186
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Weapons-Exploratory Development	150
	SCHAFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Exploratory Development	630
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	600
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Weapons-Exploratory Development	972
			USAF	RDTE/Weapons-Exploratory Development	375
	STATE TOTAL				1,347
	SPARTA INC	California	ARMY	RDTE/Weapons-Exploratory Development	46
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Exploratory Development	54
	SPIRE CORPORATION	Mass	USAF	RDTE/Weapons-Exploratory Development	50
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Weapons-Exploratory Development	129

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC52 (CONTINUED)

TECHNICAL CERAMICS LABS	Georgia	NAVY	RDTE/Weapons-Exploratory Development	\$	46
TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Weapons-Exploratory Development		489
THIokol CORPORATION	Maryland	NAVY	RDTE/Weapons-Exploratory Development		34
	Utah	USAF	RDTE/Weapons-Exploratory Development		316
CONTRACTOR TOTAL					350
TRW INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development		106
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Weapons-Exploratory Development		260
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Weapons-Exploratory Development		121
UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Weapons-Exploratory Development		104
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Exploratory Development		572
UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Weapons-Exploratory Development		29
UNIVERSITY OF TEXAS AT AUSTIN	Texas	ARMY	RDTE/Weapons-Exploratory Development		670
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Exploratory Development		409
UNIVERSITY OF WATERLOO	CANADA	USAF	RDTE/Weapons-Exploratory Development		80
R&D TOTAL					62,181
AC53 ACUREX CORPORATION	Ohio	USAF	RDTE/Weapons-Advanced Development		650
ADAPTIVE OPTICS ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development		414
ADVANCED ENERGETIC MATERIALS	Virginia	NAVY	RDTE/Weapons-Advanced Development		350
ADVANCED TECHNOLOGY & RESEARCH	Virginia	NAVY	RDTE/Weapons-Advanced Development		136
AEROJET	California	USAF	RDTE/Weapons-Advanced Development		100
AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Weapons-Advanced Development		26,600
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development		743
ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Weapons-Advanced Development		176
AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development		3,200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC53 (CONTINUED)					
	BALL CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development	407
		New Mexico	USAF	RDTE/Weapons-Advanced Development	433
	CONTRACTOR TOTAL				840
	BATTELLE DEVELOPMENT CORP	Ohio	NAVY	RDTE/Weapons-Advanced Development	141
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	3,143
	BOEING COMPANY THE	Alabama	USAF	RDTE/Weapons-Advanced Development	87-
		Washington	USAF	RDTE/Weapons-Advanced Development	40
	CONTRACTOR TOTAL				47-
	BOLT BERANEK & NEWMAN INC	California	NAVY	RDTE/Weapons-Advanced Development	1,036
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	434
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	1,300
	CONTRAVES USA INC	Penn	USAF	RDTE/Weapons-Advanced Development	8,381
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	484
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Weapons-Advanced Development	777
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Advanced Development	2,703
	E M L RESEARCH	Mass	NAVY	RDTE/Weapons-Advanced Development	100
	EDO CORPORATION	New York	USAF	RDTE/Weapons-Advanced Development	600
	ELBIT SYSTEMS OF AMERICA	Michigan	USAF	RDTE/Weapons-Advanced Development	295
	EMCORE INDUSTRIES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	2,264
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Advanced Development	2,425
	GCD ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	339
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	70-
	GENERAL ELECTRIC COMPANY	Penn	NAVY	RDTE/Weapons-Advanced Development	5,866
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Weapons-Advanced Development	430

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC53 (CONTINUED)					
	HARRIS CORPORATION	Florida	USAF	RDTE/Weapons-Advanced Development	1,845
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Advanced Development	148
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Weapons-Advanced Development	739
	I R T CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	9,020
	KAMAN CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development	81
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	3,236
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	377
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Weapons-Advanced Development	2,252
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Weapons-Advanced Development	100
	LOCKHEED CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	40
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Advanced Development	2,777
		New Mexico	USAF	RDTE/Weapons-Advanced Development	4,032
	CONTRACTOR TOTAL				6,809
	LORAL AEROSPACE CORP	California	NAVY	RDTE/Weapons-Advanced Development	2,330
	LORAL CORP	California	NAVY	RDTE/Weapons-Advanced Development	2,969
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Weapons-Advanced Development	114-
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Advanced Development	30
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Advanced Development	1,100
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Weapons-Advanced Development	52
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	1,410
		New Mexico	USAF	RDTE/Weapons-Advanced Development	3,033
	CONTRACTOR TOTAL				4,443
	OREGON GRAD CTR STUDY RESEARCH	Oregon	USAF	RDTE/Weapons-Advanced Development	32
	POWER SPECTRA INC	California	USAF	RDTE/Weapons-Advanced Development	726

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC53 (CONTINUED)

PRC INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	\$	145
R & D ASSOCIATES	Colorado	USAF	RDTE/Weapons-Advanced Development		250
	New Mexico	USAF	RDTE/Weapons-Advanced Development		8,598
					8,848
CONTRACTOR TOTAL					2,183
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Advanced Development		5,916
ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Advanced Development		6,626
S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,603
SCHAFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Advanced Development		350
SCI TEC INC	New Jersey	USAF	RDTE/Weapons-Advanced Development		63
SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Advanced Development		4,313
SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Advanced Development		557
SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Weapons-Advanced Development		182
SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Advanced Development		4,973
SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Weapons-Advanced Development		598
TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Weapons-Advanced Development		49
TRS CERAMICS INC	Penn	USAF	RDTE/Weapons-Advanced Development		3,773
TRW INC	California	ARMY USAF	RDTE/Weapons-Advanced Development RDTE/Weapons-Advanced Development		3,017
	STATE TOTAL				6,790
UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Weapons-Advanced Development		411
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Advanced Development		646
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Weapons-Advanced Development		340
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Advanced Development		2,354
UNIVERSITY OF SOUTH FLORIDA	Florida	USAF	RDTE/Weapons-Advanced Development		300

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC53 (CONTINUED)					
	VOSS SCIENTIFIC	New Mexico	USAF	RDTE/Weapons-Advanced Development	50
	WOODS HOLE OCEANOGRAPHIC INST	Mass	NAVY	RDTE/Weapons-Advanced Development	29
	WYLE LABORATORIES	California	USAF	RDTE/Weapons-Advanced Development	73
	R&D TOTAL				147,427
AC54	ADEC INTL AUTOMTN CORP	Penn	ARMY	RDTE/Weapons-Engineering Development	39
	ALLIANT TECHSYSTEMS INC	California	NAVY	RDTE/Weapons-Engineering Development	4,530
		Minnesota	NAVY	RDTE/Weapons-Engineering Development	4,155
	CONTRACTOR TOTAL				8,686
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	4,472
		Maryland	NAVY	RDTE/Weapons-Engineering Development	333
	CONTRACTOR TOTAL				4,854
	AUBURN UNIVERSITY	Alabama	USAF	RDTE/Weapons-Engineering Development	190
	AVCO CORPORATION	Mass	USAF	RDTE/Weapons-Engineering Development	21,951
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Engineering Development	64
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	886
		New Mexico	USAF	RDTE/Weapons-Engineering Development	285
	CONTRACTOR TOTAL				1,171
	DATATEC INC FORT WALTON BEACH	Florida	NAVY	RDTE/Weapons-Engineering Development	76
	DYNAMAC CORPORATION	Maryland	NAVY	RDTE/Weapons-Engineering Development	64-
	ELECTRONIC COMPONENT SALES	Virginia	NAVY	RDTE/Weapons-Engineering Development	128
	FMC CORPORATION	California	ARMY	RDTE/Weapons-Engineering Development	3,416
	GEC AVIONICS LTD	California	USAF	RDTE/Weapons-Engineering Development	400
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Weapons-Engineering Development	1,891
		Michigan	ARMY	RDTE/Weapons-Engineering Development	3,860

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AC54 (CONTINUED)					
	CONTRACTOR TOTAL				
	GOODRICH B F COMPANY THE	Florida	NAVY	RDTE/Weapons-Engineering Development	5,751
	HARSCO CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development	30
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Weapons-Engineering Development	24,884
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Engineering Development	402,408
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Engineering Development	1,019
	ORION INTERNATIONAL TECH	New Mexico	USAF	RDTE/Weapons-Engineering Development	705
	PACER SYSTEMS INC	Florida	NAVY	RDTE/Weapons-Engineering Development	411
	PRC INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	5,044
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Engineering Development	369
	RAM SYSTEM GMBH	GERMANY	NAVY	RDTE/Weapons-Engineering Development	92
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Weapons-Engineering Development	3,962
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Weapons-Engineering Development	1,275
	CONTRACTOR TOTAL	New Mexico	USAF	RDTE/Weapons-Engineering Development	30
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Engineering Development	1,409
	SRI INTERNATIONAL	California	NAVY	RDTE/Weapons-Engineering Development	1,439
	SUMMITEC CORPORATION	Tennessee	NAVY	RDTE/Weapons-Engineering Development	1,754
	TASC	Florida	USAF	RDTE/Weapons-Engineering Development	100
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Engineering Development	50
	TECHNICAL DATA DEVELOPMENT	Illinois	ARMY	RDTE/Weapons-Engineering Development	1,240
	TECHNOMICS INC	California	NAVY	RDTE/Weapons-Engineering Development	147-
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Weapons-Engineering Development	285
	TEXTRON INC	Mass	USAF	RDTE/Weapons-Engineering Development	251
					3,148
					2,196

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
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AC54 (CONTINUED)

TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Weapons-Engineering Development		3,077
UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Engineering Development		926
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Engineering Development		1,372
WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Weapons-Engineering Development		2,680-
WRIGHT MALTA CORP	New York	ARMY	RDTE/Weapons-Engineering Development		364
R&D TOTAL					500,236
AC55 ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY	RDTE/Weapons-Operational Systems Developme		188
ANALOGIC CORPORATION	Mass	NAVY	RDTE/Weapons-Operational Systems Developme		113
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		151
ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Operational Systems Developme		469
BALL CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		180
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		1,537
BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		941
C M ENGINEERING CO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		50
C M ENGINEERING CO INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		50
COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		50
CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		314
ENTEK INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		718
FIGORE INDUSTRIES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		390
GRUNMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Weapons-Operational Systems Developme		1,000
HONEYWELL INC	New Mexico	ARMY	RDTE/Weapons-Operational Systems Developme		151
KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		482
KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		94
MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Operational Systems Developme		827

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC55 (CONTINUED)					
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	727
	NUCLEAR METALS INC	Mass	USAF	RDTE/Weapons-Operational Systems Developme	136
	OKLAHOMA STATE UNIVERSITY	Florida	USAF	RDTE/Weapons-Operational Systems Developme	2,205
	PRC INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	2,066
	PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Weapons-Operational Systems Developme	638
	PROTEUS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	646
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Operational Systems Developme	230
		New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	164
	CONTRACTOR TOTAL				394
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	743
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	146
	SCHAFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Operational Systems Developme	115
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	4,969
	SENSOR CONCEPTS & APPLICATIONS	Maryland	ARMY	RDTE/Weapons-Operational Systems Developme	99
	SPARTA INC	Mass	ARMY	RDTE/Weapons-Operational Systems Developme	509
	SYNDETIX INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	3,886
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	356
	TRACOR FLIGHT SYSTEMS INC	California	NAVY	RDTE/Weapons-Operational Systems Developme	976
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	3,706
	R&D TOTAL				30,020
	AC56 ANALYTEK LTD	California	USAF	RDTE/Weapons-Management & Support	50
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Weapons-Management & Support	100
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Management & Support	94
	CADILLAC GAGE TEXTRON INC	Maryland	ARMY	RDTE/Weapons-Management & Support	51

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC56 (CONTINUED)					
	COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Weapons-Management & Support	50
	CREARE INC	N.H.	USAF	RDTE/Weapons-Management & Support	50
	DEFENSE TECHNOLOGY INC	Virginia	NAVY	RDTE/Weapons-Management & Support	1,789
	ECOCAD USA INC	Washington	USAF	RDTE/Weapons-Management & Support	60
	MCSI TECHNOLOGIES INC	Virginia	NAVY	RDTE/Weapons-Management & Support	305
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Weapons-Management & Support	162
	MISSION RESEARCH CORPORATION	New Mexico	USAF	RDTE/Weapons-Management & Support	59
		Virginia	USAF	RDTE/Weapons-Management & Support	53
	CONTRACTOR TOTAL				112
	NORTH STAR RESEARCH INC	New Mexico	USAF	RDTE/Weapons-Management & Support	240
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Weapons-Management & Support	377
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Weapons-Management & Support	50
	PRO TECH	California	USAF	RDTE/Weapons-Management & Support	50
	Q DOT INC	Colorado	USAF	RDTE/Weapons-Management & Support	50
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Weapons-Management & Support	30
	SENSORS UNLIMITED INC	New Jersey	USAF	RDTE/Weapons-Management & Support	48
	VITRO CORPORATION	Louisiana	NAVY	RDTE/Weapons-Management & Support	35
		Maine	NAVY	RDTE/Weapons-Management & Support	335
		Maryland	NAVY	RDTE/Weapons-Management & Support	111
		Miss	NAVY	RDTE/Weapons-Management & Support	380
		New Jersey	NAVY	RDTE/Weapons-Management & Support	90
		Virginia	NAVY	RDTE/Weapons-Management & Support	6,488
	CONTRACTOR TOTAL				7,440
	VOSS SCIENTIFIC	New Mexico	USAF	RDTE/Weapons-Management & Support	419

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					11,526
AC61	ADAPTIVE SENSORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	96
	ADVANCED PROJECTS RESEARCH	California	USAF	RDTE/Electronics & Communication Eq-Basic	61
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	45
	ADVEC CORPORATION	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Basic	80
	AEL DEFENSE CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	230
	AEL INDUSTRIES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	195
	AMERICAN OPTICAL CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	334
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Basic	11,109
	AMHERST SYSTEMS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	354
		USAF		RDTE/Electronics & Communication Eq-Basic	309
				STATE TOTAL	663
	AMRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	46
	APPLIED LOGIC SYSTEMS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	APTEK INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Basic	201
	ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Basic	330
	ARTEL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	707
	ASTRON CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	300
	ATLANTIC AEROSPACE ELECTRONICS	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	527
	B K SECURITY	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	244
	BOULDER NONLINEAR	Colorado	USAF	RDTE/Electronics & Communication Eq-Basic	250
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	1,320
	CENTER FOR REMOTE SENSING	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	45
	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	47
	COMMAND CONTROL INC	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	233

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	COMMONWEALTH COMPUTER RESEARCH	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	COMPEER INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	64
	COPROCESSOR CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	241
	CUBIC CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Basic	1,098
	DAEDALUS ENTERPRISES INC	Michigan	NAVY	RDTE/Electronics & Communication Eq-Basic	54
	DATA	California	USAF	RDTE/Electronics & Communication Eq-Basic	127
	DATA SYSTEMS ANALYSTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	28
	DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	246
	DIGITAL RADIO CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	120
	DIGITAL RADIO CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	322
	DYNAFLOW	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	250
	E TEK DYNAMICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	167
	ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Electronics & Communication Eq-Basic	52
	ELECTROSPACE SYSTEMS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	88
	ENSCO INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	EOIRTA SOFTWARE INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	140
	ESL INCORPORATED	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Basic	875
	EXPERTSOFT	California	ARMY	RDTE/Electronics & Communication Eq-Basic	300
	FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	350
	FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	425
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	125
	GENISYS RESEARCH & DEVELOPMENT	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	225
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	40
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	581

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	
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AC61 (CONTINUED)

HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication	Eq-Basic	\$ 2,361
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	592
HUGHES DANBURY OPTICAL SYSTEMS	Conn	ARMY	RDTE/Electronics & Communication	Eq-Basic	68
I-KINETICS INC	Mass	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	125
INFORMATION TECH APPLICATIONS	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	300
INTEGRATED SYSTEM RESEARCH	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	246
INTERACTIVE INTELLIGENT IMAGER	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	188
INTERNATIONAL MOBILE MCHS CORP	Penn	ARMY	RDTE/Electronics & Communication	Eq-Basic	233
KAISER OPTICAL SYSTEMS INC	Michigan	ARMY	RDTE/Electronics & Communication	Eq-Basic	147
LASER TECHNOLOGY ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication	Eq-Basic	337
LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Electronics & Communication	Eq-Basic	43,495
	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	3,695
CONTRACTOR TOTAL					47,190
MARLOW INDUSTRIES INC	Texas	ARMY	RDTE/Electronics & Communication	Eq-Basic	49
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Electronics & Communication	Eq-Basic	208
	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Basic	185
CONTRACTOR TOTAL					393
MARTIN USA INC	Florida	USAF	RDTE/Electronics & Communication	Eq-Basic	90
MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Electronics & Communication	Eq-Basic	30
MICROCOM CORPORATION	Penn	NAVY	RDTE/Electronics & Communication	Eq-Basic	100
MULTISPECTRAL SOLUTIONS INC	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Basic	193
NORTHROP CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	666
	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Basic	187

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FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AC61 (CONTINUED)

CONTRACTOR TOTAL

NOVA ENGINEERING INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	853
OHIO UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	249
OMNITECH INDUSTRIES INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	184
OREGON GRAD CTR STUDY RESEARCH	Oregon	ARMY	RDTE/Electronics & Communication Eq-Basic	50
ORINCON CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	650
PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Basic	50
PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	313
PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	50
PROGRAM DEVELOPMENT CORP	New York	USAF	RDTE/Electronics & Communication Eq-Basic	30
RACAL COMMUNICATIONS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Basic	28
RADIX TECHNOLOGIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	18,775
RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	70
				259
				329
				153

CONTRACTOR TOTAL

RECON OPTICAL INC	Illinois	USAF	RDTE/Electronics & Communication Eq-Basic	50
RETICULAR SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	1,014
RF MICROSYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	38
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	219
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	130
	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	349
				495
				50

CONTRACTOR TOTAL

S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	495
S-TRON	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AC61 (CONTINUED)

SAN DIEGO STATE UNIV FNOTN	California	NAVY	RDTE/Electronics & Communication Eq-Basic	\$	1,712
SAVANNAH RIVER ASSOCIATES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic		50
SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Basic RDTE/Electronics & Communication Eq-Basic		150 600
	STATE TOTAL				750
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic		1,038
SECURE SOLUTIONS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic		47
SIMEX SYSTEMS & SOFTWARE COR	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic		44
SIPPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		95
SOFTWARE AND ELECTRICAL ENGINE	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic		250
SPECTRUM MANAGEMENT GROUP INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic		178
SPIRE CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic		49
SYNETICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic		200
	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic		48
	CONTRACTOR TOTAL				248
TAI INC	Alabama	ARMY	RDTE/Electronics & Communication Eq-Basic		267
TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic		110
TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Electronics & Communication Eq-Basic		49
TELEPHONICS CORP	New York	ARMY	RDTE/Electronics & Communication Eq-Basic		408
TESSCO GROUP INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		1,257
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic		270
TEXAS MICROSYSTEMS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic		350
UNIVERSITY OF HOUSTON SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic		93
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic		180

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AC61 (CONTINUED)					
	UNIVERSITY OF KANSAS	Kansas	NAVY	RDTE/Electronics & Communication Eq-Basic	52
	UNIVERSITY OF TEXAS	Texas	USAF	RDTE/Electronics & Communication Eq-Basic	30
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	9,635
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Basic	881
	UNIVERSITY SWAGGING CORP	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	1,434
	VISIONIER TECHNOLOGIES CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	251-
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	WOOLLAM J A CO	Nebraska	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	XYBION CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	ZEGER ABRAMS INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	75
	R&D TOTAL				119,029
AC62	A P A OPTICS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	ADVANCED ACOUSTICAL CONCEPTS	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	1,923
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	73
	ADVANCED PROCESSING LABS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	102
	ADVANCED SYSTEMS TECHNOLOGY	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	250
	AEL INDUSTRIES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	300
	AEROJET	California	USAF	RDTE/Electronics & Communication Eq-Explor	150
	AEROSPACE MASS PRPTS ANALIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	105
	AHNTech INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	94-
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	3,264
	ALPHATECH INC	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Explor	52 95

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC62 (CONTINUED)

	STATE TOTAL			\$
ALTERNATIVE SYSTEM CONCEPTS	N. H.	ARMY	RDTE/Electronics & Communication Eq-Explor	147
AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	200
APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	261
ARCON CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Explor	4,763
ARINC INCORPORATED	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	81
ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	1,954
ATLANTIC AEROSPACE ELECTRONICS	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	1,349
BALL CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	458
BELL COMMUNICATIONS RESEARCH	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	167
BOEING AEROSPACE OPERATIONS	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	1,180
BOEING COMPANY THE	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	70
BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	234
		USAF	RDTE/Electronics & Communication Eq-Explor	18,093
				972
				19,065
	STATE TOTAL			
BOOZ ALLEN & HAMILTON INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	34
BUSEK CO INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	74
CAD LANGUAGE SYSTEMS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	268
CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Electronics & Communication Eq-Explor	503
CANOPUS SYSTEMS INC	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	144
	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	40
				184
	CONTRACTOR TOTAL			
CASCADE MICROTECH INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	169
CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	125

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	CLASSIFIED	Foreign	ARMY	RDTE/Electronics & Communication Eq-Explor	91
	COMPACT SOFTWARE INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	57
	COMPUTER SCIENCE APPLICATIONS	Florida	USAF	RDTE/Electronics & Communication Eq-Explor	198
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	770
	CONTEL CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	1,900
	CONTINENTAL ELECTRONICS CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	959
	COORS PORCELAIN COMPANY	Miss	NAVY	RDTE/Electronics & Communication Eq-Explor	115
	CRYSTALLUME	California	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	DAMASKOS INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	1,365
	DIGITAL RADIO CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	133
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Electronics & Communication Eq-Explor	119
	DREXEL UNIVERSITY	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	75 62
	STATE TOTAL				137
	E I C LABORATORY INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	E-OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	465
	ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	3,374
	ELECTRO SYSTEMS INTERNATIONAL	Georgia	USAF	RDTE/Electronics & Communication Eq-Explor	1,736
	ELECTRONIC DATA SYSTEMS CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	58
	ELECTRONIC WARFARE ASSOCIATES	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	175
	EMCORE CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	300
	EMERGING CONCEPTS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	31

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	EMRC INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	ENGINEERING & PROFESSIONAL SVC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	198
	ENGINEERING SPECIALTIES SVC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	44
	ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	597
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	245
	ERC INTERNATIONAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,423
	ESCO ELECTRONICS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	1,075
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	793
	ETEC SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	4,415
	F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	59
	FALON INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	300
	FELCORP	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	45
	FIBERCOM INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	107
	FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	198
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	200
	FLORIDA INTERNATIONAL UNIV	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	27
	FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	GALAXY MICROSYSTEMS INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	186
		New York	ARMY	RDTE/Electronics & Communication Eq-Explor	852
	CONTRACTOR TOTAL				1,038
	GENERAL TECHNICAL SERVICES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	175
	GEO CENTERS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	4,057

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AC62 (CONTINUED)					
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	117
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication Eq-Explor	2,144
			NAVY	RDTE/Electronics & Communication Eq-Explor	83
		STATE TOTAL			2,227
	GIORDANO ASSOCIATES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	148
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	100
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	159-
		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	1,494
					1,335
	CONTRACTOR TOTAL				508
	GTE PRODUCTS CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	477
	HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	204
			USAF	RDTE/Electronics & Communication Eq-Explor	2,865
		STATE TOTAL			3,546
		New York	NAVY	RDTE/Electronics & Communication Eq-Explor	34
	CONTRACTOR TOTAL				3,580
	HARTMANN RESEARCH INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	226
	HEWLETT-PACKARD COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	58
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	61
	HONEYWELL INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	266
			NAVY	RDTE/Electronics & Communication Eq-Explor	92
			USAF	RDTE/Electronics & Communication Eq-Explor	70
		STATE TOTAL			427
	HOWARD UNIVERSITY	D.C.	ARMY	RDTE/Electronics & Communication Eq-Explor	40
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	3,716
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,799
			USAF	RDTE/Electronics & Communication Eq-Explor	148

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AC62 (CONTINUED)

ILC TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication	Eq-Explor	5,662
ILLINOIS SUPERCONDUCTOR CORP	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Explor	49
IMAGING AND SENSING TECH CORP	New York	ARMY	RDTE/Electronics & Communication	Eq-Explor	268
INTEGRATED SENSORS INC	New York	USAF	RDTE/Electronics & Communication	Eq-Explor	175
INTEGRATED SYSTEMS INC	Georgia	ARMY	RDTE/Electronics & Communication	Eq-Explor	199
INTEL CORPORATION	Oregon	ARMY	RDTE/Electronics & Communication	Eq-Explor	200
INTERMETRICS INC	Mass	ARMY	RDTE/Electronics & Communication	Eq-Explor	435
INTERNATIONAL BUS MCHS CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Explor	383
	New York	USAF	RDTE/Electronics & Communication	Eq-Explor	349
	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Explor	3,132
CONTRACTOR TOTAL					1,849
IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Electronics & Communication	Eq-Explor	5,330
IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Explor	144
ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Explor	300
	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Explor	279
CONTRACTOR TOTAL					550
J R S RESEARCH LABORATORIES	California	ARMY	RDTE/Electronics & Communication	Eq-Explor	829
KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Explor	140
	New York	USAF	RDTE/Electronics & Communication	Eq-Explor	100
CONTRACTOR TOTAL					491
KDDE INC	Texas	NAVY	RDTE/Electronics & Communication	Eq-Explor	591
KOPIN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication	Eq-Explor	29
L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Electronics & Communication	Eq-Explor	100
					75

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AC62 (CONTINUED)					
	LASER DIODE INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 150
	LASER POWER CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	120
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	3,391
	LITTON SYSTEMS INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	60
		California	ARMY	RDTE/Electronics & Communication Eq-Explor	322
	CONTRACTOR TOTAL				382
	LOCKHEED CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	135
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Electronics & Communication Eq-Explor	349
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	1,180-
	LORAL CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	437
			NAVY	RDTE/Electronics & Communication Eq-Explor	40
	STATE TOTAL				477
	MAGNAVOX GOVT & INDSTR ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Explor	152
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Explor	1,893
	CONTRACTOR TOTAL				2,045
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	9,256
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Electronics & Communication Eq-Explor	486
	METROLASER	California	USAF	RDTE/Electronics & Communication Eq-Explor	322
	MICROWAVE TECHNOLOGY INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	159
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	MOTOROLA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Explor	236
			NAVY	RDTE/Electronics & Communication Eq-Explor	101
	STATE TOTAL				338
	MULTILAYER OPTICS & X-RAY TECH	Utah	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	NAVCOM DEFENSE ELECTRONICS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	261

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AC62 (CONTINUED)					
	NAVMAR APPLIED SCIENCES CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	\$ 743
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	747
	NIMBLE COMPUTER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	105
	NORTHROP CORPORATION	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	318
	OGDEN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	88
	OPTIVISION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	657
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	3,040
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,302
	PENNSYLVANIA STATE UNIVERSITY	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	200 21,203
			STATE TOTAL		21,403
	PERCEPTUAL IMAGES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	PERII SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	PERKIN-ELMER CORPORATION THE	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	400 -
	PHELAN COMPUTING INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	286
	PHONON CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	PHOTOGLASS	Illinois	USAF	RDTE/Electronics & Communication Eq-Explor	100
	PHOTONICS SYSTEMS INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	171
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	580
	POLHEMUS NVG TN SCNC INC	Vermont	NAVY	RDTE/Electronics & Communication Eq-Explor	285
	POWER CONVERSION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	150
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	460

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AC62 (CONTINUED)

Q S D INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	\$	25-
R J O ENTERPRISES INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor		2,623
RADANT TECHNOLOGIES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor		171
RADIX TECHNOLOGIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor		280
RAMSEARCH CO	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor		150
RAYOVAC CORPORATION	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Explor		1,991
RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Explor		294
	Mass	USAF	RDTE/Electronics & Communication Eq-Explor		703
	Rhode Isl	NAVY	RDTE/Electronics & Communication Eq-Explor		310
CONTRACTOR TOTAL					1,307
REVED INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor		300
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Electronics & Communication Eq-Explor		30
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor		234
	NAVY		RDTE/Electronics & Communication Eq-Explor		65
STATE TOTAL					299
ROME RESEARCH CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Explor		545
ROOS INSTRUMENTS	California	ARMY	RDTE/Electronics & Communication Eq-Explor		200
S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor		97
SAFT AMERICA INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor		951
	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor		176
CONTRACTOR TOTAL					1,127
SCHMITT TECHNOLOGY	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor		50
SCHOTT FIBER OPTICS	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor		200
SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor		270

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AC62 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	\$ 4,388
		Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	50
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	811
	CONTRACTOR TOTAL				5,249
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	SIERRA NEVADA CORPORATION	Nevada	ARMY	RDTE/Electronics & Communication Eq-Explor	102
	SILICON VIDEO CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,094
	SOFTTECH INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor	1,117
	SOFTWARE PRDUCIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	SONETECH CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	SPACE APPLICATIONS CORPORATION	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	39
	SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	200
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,302
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Explor	91
	STATE TOTAL				1,393
	SRS TECHNOLOGIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	479
	STANFORD UNIVERSITY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	600
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Explor	2,655
	STATE TOTAL				3,255
	STEINBRECHER CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	STOCHASTIX	California	ARMY	RDTE/Electronics & Communication Eq-Explor	46
	SUPERCONDUCTOR TECHNOLOGIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	SYNECTICS CORP	New York	USAF	RDTE/Electronics & Communication Eq-Explor	44
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	503

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AC62 (CONTINUED)					
			NAVY	RDTE/Electronics & Communication Eq-Explor	\$ 318
		STATE TOTAL			822
	T P L INC	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	TCI INTERNATIONAL INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	556
	TECHMATICS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	TECHNOCHEM CO	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	TENCO SERVICES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	32
	TERA COMPUTER COMPANY	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	3,750
	TEXAS A & M UNIVERSITY	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	430
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	3,780
			NAVY	RDTE/Electronics & Communication Eq-Explor	5,393
		STATE TOTAL			9,173
	TFR TECHNOLOGIES INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	275
	THERMOTREX CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	580
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,294
		STATE TOTAL			1,874
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	597
	TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,730
	TOOMAY MATHIS & ASSOCIATES	Montana	NAVY	RDTE/Electronics & Communication Eq-Explor	31
	TORREY SCIENCE AND TECHNOLOGY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	260
	TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	753
	TRICOR SYSTEMS INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Explor	60
	TRUSTEES OF PRINCETON UNIV	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	274
	TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	19,041

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC62 (CONTINUED)					
	U B C INC	Florida	USAF	RDTE/Electronics & Communication Eq-Explor	1,049
				RDTE/Electronics & Communication Eq-Explor	717
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	20,807
					50
	UNIV OF MARYLAND COLLEGE PARK	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	595
					125
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Electronics & Communication Eq-Explor	94
					94
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	450
					450
	UNIVERSITY OF TEXAS	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	4,977
					4,977
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	242
			NAVY	RDTE/Electronics & Communication Eq-Explor	36,458
					36,700
					125
	VARIAN ASSOCIATES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	125
					305
	VECTOR RESEARCH COMPANY INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	50
					150
	VIASAT INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	287
					4,512
	VISTA RESEARCH	California	NAVY	RDTE/Electronics & Communication Eq-Explor	248
					10,411
	VITRO CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	82
					10,493
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	2,463
					173
	VULN/EVAL ASSOC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	45
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	
		Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	
	CONTRACTOR TOTAL				
	WHITTAKER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	
	WOOLLAM J A CO	Nebraska	USAF	RDTE/Electronics & Communication Eq-Explor	
	WORCESTER POLYTECHNIC INSTITUT	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	WYLE LABORATORIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	335
	R&D TOTAL				264,070
AC63	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	199
	A V W ELECTRONIC SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	99
	ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	41
	ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	70
	ADVANCED ACOUSTICAL CONCEPTS	New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	172
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	160
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Advanc	195
	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	50
	AEL DEFENSE CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Advanc	100
	AEPKO INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	100
	AEROVIRONMENT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	850
	AIL SYSTEMS INC	New York	ARMY NAVY	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,239 136
	STATE TOTAL				1,376
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,780
	ALPHATECH INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	511
	AMERICAN TELEPHONE & TELG CO	New Jersey	ARMY	RDTE/Electronics & Communication Ec-Advanc	100
	CONTRACTOR TOTAL	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Advanc	35,290
					35,390
	ANALYSIS & COMPUTER SYSTEMS	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	237
	ANAREN MICROWAVE INC	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	59
	ATLANTIC RESEARCH CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	558

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	AUTOMATION GROUP THE	California	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 1,530
	BALL CORPORATION	Colorado	NAVY	RDTE/Electronics & Communication Eq-Advanc	60
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	32
	CONTRACTOR TOTAL				92
	BANDGAP TECH	Colorado	NAVY	RDTE/Electronics & Communication Eq-Advanc	31
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	312
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	290
	BOEING COMPANY THE	Kansas	USAF	RDTE/Electronics & Communication Eq-Advanc	70
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	10,615
			USAF	RDTE/Electronics & Communication Eq-Advanc	120
	STATE TOTAL				10,735
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	445
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	130
	CONTRACTOR TOTAL				11,310
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	254
	BRITISH AEROSPACE PLC	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,158
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	1,192
	CERAMIC PROCESS	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	230
	CHANG INDUSTRY INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	26
	CINCINNATI ELECTRONICS CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	709
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	524
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	250
	COMP INFO SCI	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	50
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	11,170

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	363
	CONVERGENT RESOURCES INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	46
	CREARE INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Advanc	100
	DATASONICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	545
	DATUM INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	71
	DCS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	332
	DELFIN SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	290
	DIGITAL EQUIPMENT CORPORATION	Conn	NAVY	RDTE/Electronics & Communication Eq-Advanc	92
	DIGITAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	508
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	201
	DS COMPUTER CONSULTING	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	25
	E-OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,546
			USAF	RDTE/Electronics & Communication Eq-Advanc	185
		STATE TOTAL			1,731
	E-SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	41,120
			USAF	RDTE/Electronics & Communication Eq-Advanc	8,300
		STATE TOTAL			49,420
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,366
	EDAL INDUSTRIES INCORPORATED	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	34-
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	201
	ELECTRO-RADIATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	468
	ENGINEERING & ECONOMICS RES	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	562
	ENGINEERING & PROFESSIONAL SVC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	509
	ENTRANCE CONTROLS INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Advanc	75
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc	4,380

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AC63 (CONTINUED)

ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	\$ 54,987
FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Advanc	1,960
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	939
		USAF	RDTE/Electronics & Communication	Eq-Advanc	1,270
	STATE TOTAL				4,169
FOSTER MILLER INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	500
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	927
GENERAL ELCTRC-RCA TECH LAB JV	New Jersey	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,600
GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	284
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	29,765
		USAF	RDTE/Electronics & Communication	Eq-Advanc	832
	STATE TOTAL				30,881
	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	790
		USAF	RDTE/Electronics & Communication	Eq-Advanc	1,535
	STATE TOTAL				2,325
CONTRACTOR TOTAL					33,206
GENERAL MOTORS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	475
GEORGIA INSTITUTE TECHNOLOGY	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	104
GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	4,050
GOULD INC	Illinois	USAF	RDTE/Electronics & Communication	Eq-Advanc	250
GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	152
		USAF	RDTE/Electronics & Communication	Eq-Advanc	419
	STATE TOTAL				571
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	50
					622
HARRIS CORPORATION	Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc	141
	New York	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,964

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AC63 (CONTINUED)

CONTRACTOR TOTAL

HAZELTINE CORPORATION	New York	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,105
HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	4,364
HOLOMAX LTD	CANADA	USAF	RDTE/Electronics & Communication	Eq-Advanc	217
HONEYWELL INC	Minnesota	NAVY	RDTE/Electronics & Communication	Eq-Advanc	458
	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,175	
				1,673	
STATE TOTAL					2,848

CONTRACTOR TOTAL

HUGHES AIRCRAFT COMPANY	New Mexico	ARMY	RDTE/Electronics & Communication	Eq-Advanc	1,847
					4,694
	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	6,458
	NAVY	RDTE/Electronics & Communication	Eq-Advanc	5,667	
	USAF	RDTE/Electronics & Communication	Eq-Advanc	15,146	
STATE TOTAL					27,270

HUGHES DANBURY OPTICAL SYSTEMS

INNOVATIVE INFORMATION SYS	Conn	USAF	RDTE/Electronics & Communication	Eq-Advanc	335
INTEGRATED SYSTEM RESEARCH	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	322
INTERNATIONAL BUS MCHS CORP	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	423
	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	1,400
	USAF	RDTE/Electronics & Communication	Eq-Advanc	5,551	
STATE TOTAL					6,951

Virginia	USAF	RDTE/Electronics & Communication	Eq-Advanc	571
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CONTRACTOR TOTAL

ITT CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication	Eq-Advanc	7,522
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,662
STATE TOTAL					625

CONTRACTOR TOTAL

LABTEK CORP	Conn	ARMY	RDTE/Electronics & Communication	Eq-Advanc	3,287
LITTON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	195
STATE TOTAL					275

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AC63 (CONTINUED)

LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Electronics & Communication	Eq-Advanc	\$ 2,660
LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Electronics & Communication	Eq-Advanc	9,141
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	2,789
		USAF	RDTE/Electronics & Communication	Eq-Advanc	12,790
		STATE TOTAL			
LORAL AEROSPACE CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	221
		USAF	RDTE/Electronics & Communication	Eq-Advanc	50
		STATE TOTAL			271
LORAL CORP	Arizona	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,329
	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	170
	Mass	USAF	RDTE/Electronics & Communication	Eq-Advanc	318
	New York	USAF	RDTE/Electronics & Communication	Eq-Advanc	3,739
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	335
					6,891
		CONTRACTOR TOTAL			33
M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	251
MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	350
MALIBU RESEARCH ASSOCIATES	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	362
		USAF	RDTE/Electronics & Communication	Eq-Advanc	712
		STATE TOTAL			962
MARCONI UNDERWATER SYSTEMS LTD	UNITED KIN	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,127
MARLOW INDUSTRIES INC	Texas	ARMY	RDTE/Electronics & Communication	Eq-Advanc	2,974
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,657
	Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc	254
	Maryland	USAF	RDTE/Electronics & Communication	Eq-Advanc	633
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	6,518
		CONTRACTOR TOTAL			

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	MC CALL OMAR & ASSOCIATES	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	\$ 311
	MCDONNELL AIRCRAFT COMPANY	Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	490
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	223
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	73
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Electronics & Communication Eq-Advanc	267
	MERIT TECHNOLOGY INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	45
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	800
	MIRAGE SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	201
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	258
		New Mexico	NAVY	RDTE/Electronics & Communication Eq-Advanc	94
	CONTRACTOR TOTAL				352
	MOTOROLA INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Advanc	2,672
			USAF	RDTE/Electronics & Communication Eq-Advanc	495
	STATE TOTAL				3,168
	NAVCOM DEFENSE ELECTRONICS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	380
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Advanc	450
		Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc	171
	CONTRACTOR TOTAL				621
	NITOR	California	USAF	RDTE/Electronics & Communication Eq-Advanc	994
	NORDEN SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	6,394
	NORTHROP CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,079
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,576
	STATE TOTAL				3,655
		Illinois	USAF	RDTE/Electronics & Communication Eq-Advanc	203
	CONTRACTOR TOTAL				3,858
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	450

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AC63 (CONTINUED)

ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	\$ 389
OPTICAL CORP OF AMERICA	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	119
PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	2,396
PARAMAX SYSTEMS CORP	Utah	USAF	RDTE/Electronics & Communication	Eq-Advanc	2,202
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	150
PLANNING SYSTEMS INCORPORATED	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc	749
PRESEARCH INCORPORATED	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc	496
PURVIS SYSTEMS INCORPORATED	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	275
Q SOURCE INC	Conn	USAF	RDTE/Electronics & Communication	Eq-Advanc	235
QUALCOMM INC	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	50
		USAF	RDTE/Electronics & Communication	Eq-Advanc	158
	STATE TOTAL				208
QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,454
RACAL DANA INSTRUMENTS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	56
RAYTHEON COMPANY	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,252
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	26,299
		USAF	RDTE/Electronics & Communication	Eq-Advanc	15,367
	STATE TOTAL				41,866
	Rhode Isl	NAVY	RDTE/Electronics & Communication	Eq-Advanc	4,239
CONTRACTOR TOTAL					47,156
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	674
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	810
		USAF	RDTE/Electronics & Communication	Eq-Advanc	619
	STATE TOTAL				2,103
	Texas	NAVY	RDTE/Electronics & Communication	Eq-Advanc	4,997
		USAF	RDTE/Electronics & Communication	Eq-Advanc	1,356

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL			STATE TOTAL	
	SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,353
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	8,456
		USAF	RDTE/Electronics & Communication Eq-Advanc	2,135	
				10,755	
				1,771	
				12,526	
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	3,314
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	130
				15,970	
	CONTRACTOR TOTAL				
	SCIENTIFIC-ATLANTA INC	Georgia	USAF	RDTE/Electronics & Communication Eq-Advanc	969
	SCOPE INCORPORATED	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	219
	SIPPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	556
	SIXD B CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	400
	SOFTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	920
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	300
				1,220	
	CONTRACTOR TOTAL				
	SOFTWARE COMPOSITIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Advanc	225
	SONNET SOFTWARE INC	New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	58
	SPACE APPLICATIONS CORPORATION	Washington	ARMY	RDTE/Electronics & Communication Eq-Advanc	250
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Advanc	4,020
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	4,507
	STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	7,300
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	80
	SVERDRUP CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	454

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC63 (CONTINUED)

SYRACUSE RESEARCH CORP	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	\$	2,140
SYSTEM PLANNING CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc		430
TASC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc		1,659
TAU CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc		100
TEC MASTERS INC	Alabama	ARMY	RDTE/Electronics & Communication Eq-Advanc		188
TERRA TEK INC	Utah	NAVY	RDTE/Electronics & Communication Eq-Advanc		237
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc		3,000
		NAVY	RDTE/Electronics & Communication Eq-Advanc		190
		USAF	RDTE/Electronics & Communication Eq-Advanc		1,163
STATE TOTAL					4,352
TEXCOM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc		503
TEXTRON INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc		133
		USAF	RDTE/Electronics & Communication Eq-Advanc		1,813
STATE TOTAL					1,946
TITAN CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc		99
TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc		325
TREMETRICS INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc		251
TRW INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc		2,826
	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc		936
CONTRACTOR TOTAL					3,762
UNITED INFORMATION SYSTEMS	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc		499
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc		13,324
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Electronics & Communication Eq-Advanc		170
VARIAN ASSOCIATES INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc		75
VEDA INCORPORATED	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc		4,789

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	VIASAT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 410
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	10,907
			NAVY	RDTE/Electronics & Communication Eq-Advanc	39
			USAF	RDTE/Electronics & Communication Eq-Advanc	7,122
		STATE TOTAL			18,068
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	220
	XACTON CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	160
	XETRON CORPORATION	Ohio	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,753
	R&D TOTAL				496,754
AC64					
	ADROIT SYSTEMS INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Engr D	372
	ADVANCED SYSTEMS DEVELOPMENT	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	55
	AHNTECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	282-
	ALLIANT TECHSYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	510
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,479
	AMERICAN ERECTORS & CONTRACT	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	226
	AMERICAN SYSTEMS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	224
	AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,461
			USAF	RDTE/Electronics & Communication Eq-Engr D	380
		STATE TOTAL			2,841
	CONTRACTOR TOTAL	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	117,297
			USAF	RDTE/Electronics & Communication Eq-Engr D	37
		STATE TOTAL			117,333
	ANDRULIS RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	120,174
		Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,485
	CONTRACTOR TOTAL				200
					1,685

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AC64 (CONTINUED)					
	APPLIED SIGNAL TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	315
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	26-
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	847
	CONTRACTOR TOTAL				821
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	BALL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D	281
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	759
	CONTRACTOR TOTAL				1,040
	BLACK & DECKER CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,358
	BOEING AEROSPACE OPERATIONS	Washington	NAVY	RDTE/Electronics & Communication Eq-Engr D	23,544
			USAF	RDTE/Electronics & Communication Eq-Engr D	45,013
	STATE TOTAL				68,557
	BOEING COMPANY THE	Kansas	USAF	RDTE/Electronics & Communication Eq-Engr D	665
		Washington	USAF	RDTE/Electronics & Communication Eq-Engr D	1,000
	CONTRACTOR TOTAL				1,665
	BOLT BERANEK & NEWMAN INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	723
	BOOZ ALLEN & HAMILTON INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	65-
	BOSE CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,519
	BTG INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	146
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	9,224
	CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,152
			USAF	RDTE/Electronics & Communication Eq-Engr D	233
	STATE TOTAL				1,385
	CERIDIAN CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,267
			USAF	RDTE/Electronics & Communication Eq-Engr D	649
	STATE TOTAL				5,916

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	CFM INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 7,178
	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Electronics & Communication Eq-Engr D	98
	COMARCO INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,430
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,182
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,207
		USAF	RDTE/Electronics & Communication Eq-Engr D	6,781	
		STATE TOTAL			8,988
					11,170
	CONTEL CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	883
		Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	140
	CONTRACTOR TOTAL				1,022
	CONTRAVES USA INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	800
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	850
	DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	627
	DEFENSE ANALYSIS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	926
	DIGITAL WIZARDS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,217
	DONNELL & ASSOC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	246
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	170
	E-SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	17,577
		Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,075
	CONTRACTOR TOTAL				19,652
	EATON CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	8,000
	EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D	376
	EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	83-
	ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	95

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AC64 (CONTINUED)

ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D	\$ 353
ENSCO INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D	53-
ERC INTERNATIONAL INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	2,874
ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	164
ETA TECHNOLOGIES CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	287
FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Engr D	58
G E COMPANY	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	280
GALAXY SCIENTIFIC CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	689
	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Engr D	465
	Penn	NAVY	RDTE/Electronics & Communication	Eq-Engr D	296
CONTRACTOR TOTAL					1,450
GEC MARCONI CO LTD	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Engr D	2,868
GEC MARCONI ELECT SYS	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Engr D	1,128
		USAF	RDTE/Electronics & Communication	Eq-Engr D	53,384
STATE TOTAL					54,512
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	8,769
GENERAL ELECTRIC CO PLC THE	CANADA	USAF	RDTE/Electronics & Communication	Eq-Engr D	3,564
GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Electronics & Communication	Eq-Engr D	39,515
	New Jersey	USAF	RDTE/Electronics & Communication	Eq-Engr D	447
	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	7,116
CONTRACTOR TOTAL					47,077
GENERAL MICRO SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	88
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication	Eq-Engr D	1,127
GLOBAL INFO SYSTEMS TECHNOLOGY	Illinois	USAF	RDTE/Electronics & Communication	Eq-Engr D	2,840

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AC64 (CONTINUED)					
GRECO SYSTEMS	GRUMMAN AEROSPACE CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$ 56
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,730
			USAF	RDTE/Electronics & Communication Eq-Engr D	448,933
	STATE TOTAL				453,663
GRUMMAN DATA SYSTEMS CORP	GTE GOVERNMENT SYSTEMS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	7,939
		California	ARMY	RDTE/Electronics & Communication Eq-Engr D	120
		Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	465
	Mass	ARMY	RDTE/Electronics & Communication Eq-Engr D		2,846
	CONTRACTOR TOTAL				3,431
HARRIS CORPORATION	HARRIS MAGNAVOX SYSTEMS CO JV	Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	465
			USAF	RDTE/Electronics & Communication Eq-Engr D	1,119
		STATE TOTAL			1,584
HEWLETT-PACKARD COMPANY	HUGHES AIRCRAFT COMPANY	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	6,048
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	30
		Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	84
	CONTRACTOR TOTAL				114
HUGHES NETWORK SYSTEMS INC	HUGHES TRAINING SYS INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	23,551
			NAVY	RDTE/Electronics & Communication Eq-Engr D	43,205
		STATE TOTAL			66,756
I I T RESEARCH INSTITUTE		Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,072
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,750
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	69,578
	CONTRACTOR TOTAL				10,081
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	400
		Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,358

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AC64 (CONTINUED)					
	I R I CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	150
	ILLGEN SIMULATION TECHNOLOGIES	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	244
	INFORMATION SYSTEMS NTRKS CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	95
	INTERMETRICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	462
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,632
	CONTRACTOR TOTAL				2,094
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	18,691
			USAF	RDTE/Electronics & Communication Eq-Engr D	100
	STATE TOTAL				18,791
	CONTRACTOR TOTAL	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	58,714
					77,505
	INTERSTATE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	9,828
	IRI INTERNATIONAL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	188
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,331
	ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	11,323
		S ARABIA	ARMY	RDTE/Electronics & Communication Eq-Engr D	75
	CONTRACTOR TOTAL				11,398
	KEARFOTT GUIDANCE & NAVIGATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	3,390
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,515
			USAF	RDTE/Electronics & Communication Eq-Engr D	33,372
	STATE TOTAL				37,887
	CONTRACTOR TOTAL				41,278
	KETRON INC	Penn	USAF	RDTE/Electronics & Communication Eq-Engr D	390
	LITTON INDUSTRIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	177
		S ARABIA	ARMY	RDTE/Electronics & Communication Eq-Engr D	125-

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AC64 (CONTINUED)

CONTRACTOR TOTAL

LITTON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	52
	Penn	NAVY	RDTE/Electronics & Communication	Eq-Engr D	3,469
CONTRACTOR TOTAL					55
LOCKHEED MISSILES & SPACE CO	Texas	NAVY	RDTE/Electronics & Communication	Eq-Engr D	3,524
LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Electronics & Communication	Eq-Engr D	12,744
		NAVY	RDTE/Electronics & Communication	Eq-Engr D	10,777
		USAF	RDTE/Electronics & Communication	Eq-Engr D	5,932
					6,535
STATE TOTAL					23,244

LORAL AEROSPACE CORP

California	USAF	RDTE/Electronics & Communication	Eq-Engr D	160
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LORAL CORP

California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	89
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Colorado	USAF	RDTE/Electronics & Communication	Eq-Engr D	29,723
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New York	USAF	RDTE/Electronics & Communication	Eq-Engr D	2,861
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Ohio	USAF	RDTE/Electronics & Communication	Eq-Engr D	29
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Penn	ARMY	RDTE/Electronics & Communication	Eq-Engr D	2,352
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CONTRACTOR TOTAL

					35,054
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LOS ALAMOS NATIONAL

New Mexico	USAF	RDTE/Electronics & Communication	Eq-Engr D	145
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MAC AULAY BROWN INC

Ohio	USAF	RDTE/Electronics & Communication	Eq-Engr D	2,156
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MAGNAVOX GOVT & INDSTR ELCTR

California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	16,335
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Indiana	USAF	RDTE/Electronics & Communication	Eq-Engr D	2,212
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CONTRACTOR TOTAL

					18,547
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MARTIN MARIETTA CORPORATION

Florida	ARMY	RDTE/Electronics & Communication	Eq-Engr D	1,212
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	USAF	RDTE/Electronics & Communication	Eq-Engr D	24,800
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STATE TOTAL

					26,012
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Maryland	NAVY	RDTE/Electronics & Communication	Eq-Engr D	7,000
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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	MAXIMA CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	33,012
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Electronics & Communication Eq-Engr D	817
			USAF	RDTE/Electronics & Communication Eq-Engr D	46,264
					4,307
					50,571
	STATE TOTAL				
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	720
	MICHIGAN STATE UNIVERSITY	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	105
	MITECH INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Engr D	63
	MOTOROLA INC	Arizona	USAF	RDTE/Electronics & Communication Eq-Engr D	485
	MTS SYSTEMS CORPORATION	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	595
	NATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	350
	NEWPORT ELECTRO OPTIC SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	34
	NORTHROP CORPORATION	Illinois	USAF	RDTE/Electronics & Communication Eq-Engr D	10,376
	ODYSSEY RESEARCH ASSOCIATES	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	118
	OGDEN GOVERNMENT SERVICES CIRP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	248
	PACIFIC SCIENCE & ENGRG GROUP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	85
	PARAMAX SYSTEMS CORP	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,858
	PENN COMPUTER ASSOCIATES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	125
	PENNSYLVANIA STATE UNIVERSITY	Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	146
	PHYSICAL SCIENCES INC	Washington	USAF	RDTE/Electronics & Communication Eq-Engr D	300
	PIEZO TECHNOLOGY INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	106
	POLAR ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,878
	PRC INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,942
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	90-

AC64 (CONTINUED)

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AC64	(CONTINUED)				

CONTRACTOR TOTAL

PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	\$	2,852
PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		806
PTI TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		627
PURVIS SYSTEMS INCORPORATED	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		64
	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D		440
					241
					681
CONTRACTOR TOTAL					84
QUANTUM DIAGNOSTICS LTD	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D		731
QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D		833
RAYTHEON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		312-
					522
STATE TOTAL	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		18,567
		USAF	RDTE/Electronics & Communication Eq-Engr D		17,961
					36,528
CONTRACTOR TOTAL	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Engr D		10,560
					47,610
RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D		30
RF MICROSYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		284
ROCKWELL INTERNATIONAL CORP	Iowa	NAVY	RDTE/Electronics & Communication Eq-Engr D		4,529
		USAF	RDTE/Electronics & Communication Eq-Engr D		99,807
					104,336
STATE TOTAL	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		50
RUTGERS STATE UNIVERSITY OF NJ	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		70
RUTGERS THE STATE UNIVERSITY	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		8,458
SCIENCE APPLICATIONS INTL CORP					

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	SCIENTIFIC COMPUTING ASSOC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	1,199
	SCOPE INCORPORATED	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	9,657
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	59
			NAVY	RDTE/Electronics & Communication Eq-Engr D	217
					30
	STATE TOTAL				247
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,083
	SEQUENTIAL INFORMATION SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	736
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	7,044
	SOFTECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	999
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	40
	CONTRACTOR TOTAL				1,038
	SONALYSTS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,817
	SONITECH INTERNATIONAL	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	141
	SOUTHERN RESEARCH TECHNOLOGIES	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	61
	SPARTA INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	51
	SPARTON CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,145
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,583
	CONTRACTOR TOTAL				4,728
	SPECTRUM TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D	192
	SPERRY MARINE INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,543
	STEWART & STEVENSON SVCS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	3,100
	SUMARIA SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,616
	SYNETICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,117

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC64 (CONTINUED)

SYSTEM EXPLORATION INTL	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	2,838
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Engr D	708
TASC	Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D	248
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	59
TELEPHONICS CORPORATION	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	485
TELESOFT	N.H.	NAVY	RDTE/Electronics & Communication	Eq-Engr D	40
TEXAS INSTRS WESTINGHOUSE JV	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	38-
TEXAS INSTRUMENTS INCORPORATED	Colorado	NAVY	RDTE/Electronics & Communication	Eq-Engr D	3,800
	Texas	ARMY	RDTE/Electronics & Communication	Eq-Engr D	50
		NAVY	RDTE/Electronics & Communication	Eq-Engr D	44,469
					44,519
					48,319
CONTRACTOR TOTAL					
STATE TOTAL					
TEXTRON INC	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	524
THIN FILM CONCEPTS INC	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	49
TIBURON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	119
TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	1,779
TRACOR APPLIED SCIENCES INC	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Engr D	798
	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	321
CONTRACTOR TOTAL					1,118
TRANSTECH PARALLEL SYSTEMS	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	840
TRANSTECHNOLOGY CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Engr D	34-
TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D	58
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication	Eq-Engr D	2,759
VARO INC	Texas	ARMY	RDTE/Electronics & Communication	Eq-Engr D	28,195

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	VEDA INCORPORATED	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 1,680
		Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	115
	CONTRACTOR TOTAL				1,795
	VGS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	293
	VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,300
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,636
			USAF	RDTE/Electronics & Communication Eq-Engr D	3,594
	STATE TOTAL				6,231
		Ohio	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,773
	CONTRACTOR TOTAL				9,004
	WHITTAKER CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D	1,607
	WIDE BAND SYSTEMS INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	160
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	287
	R&D TOTAL				1,606,461
AC65	AEL INDUSTRIES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Op Sys	273
	AEPCO INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	126
	AEROSPACE MASS PRPTS ANALIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	750
	ALLIANT TECHSYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	73
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Op Sys	4,817
	ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	633
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	45
	ASTRON CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	93
	ATLANTIC RESEARCH CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	414
	AVCO CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	125

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC65 (CONTINUED)

BALL CORPORATION	Colorado	NAVY	RDTE/Electronics & Communication Eq-Op Sys	\$	7,184
BENDIX FIELD ENGINEERING CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys		62
BLACK & DECKER CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys		234
BOLT BERANEK & NEWMAN INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		1,800
C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys		87
CABLE & COMPUTER TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		35
CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY	RDTE/Electronics & Communication Eq-Op Sys		2,002
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		100
CHRONOMETRICS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys		225
COLEMAN RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Op Sys		851
COLLINS SYSTEMS INTERNATIONAL	Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys		3,026
COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		1,282
COMPUTER SYSTEMS INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys		806
COMPUTING DEVICES CANADA LTD	CANADA	NAVY	RDTE/Electronics & Communication Eq-Op Sys		2,843
CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		893
DBA SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys		124
DE LORME PUBLISHING COMPANY	Maine	ARMY	RDTE/Electronics & Communication Eq-Op Sys		100
DOSS AVIATION INC	Alabama	ARMY	RDTE/Electronics & Communication Eq-Op Sys		2,044
E-SYSTEMS INC	Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys		345
	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys		107
CONTRACTOR TOTAL					452
EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys		884
	Virginia	USAF	RDTE/Electronics & Communication Eq-Op Sys		154
CONTRACTOR TOTAL					1,037

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AC65 (CONTINUED)					
	ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	236
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	838
	FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	440
	FAIRCHILD SPACE & DEF CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	170
	FORD H J ASSOCIATES INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Op Sys	209
	FRONTIER ENGINEERING INC	Oklahoma	NAVY	RDTE/Electronics & Communication Eq-Op Sys	64
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	335
		Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,070
	CONTRACTOR TOTAL				2,405
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,149
		Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	2,972
	CONTRACTOR TOTAL				5,121
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,941
			USAF	RDTE/Electronics & Communication Eq-Op Sys	39-
	STATE TOTAL				1,902
	GENERAL SIGNAL CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	441
	GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,484
			USAF	RDTE/Electronics & Communication Eq-Op Sys	31,044
	STATE TOTAL				32,528
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	795
	CONTRACTOR TOTAL				33,323
	GTE SYLVANIA COM PRODUCTS	Mass	USAF	RDTE/Electronics & Communication Eq-Op Sys	25,006
	HONEYWELL INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	92
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	520,312
			USAF	RDTE/Electronics & Communication Eq-Op Sys	7,343
	STATE TOTAL				527,654

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC65 (CONTINUED)					
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Electronics & Communication Eq-Op Sys	40
	INFOTEC DEVELOPMENT INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	94
			USAF	RDTE/Electronics & Communication Eq-Op Sys	1,019
		STATE TOTAL			1,113
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	27,849
	ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	813-
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	57,969
					57,156
	CONTRACTOR TOTAL				30
	K & L MICROWAVE INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	43,399
	KEARFOTT GUIDANCE & NAVIGATION	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	80
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	495
	LITTON SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	84,450
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,881
			USAF	RDTE/Electronics & Communication Eq-Op Sys	97,826
		STATE TOTAL			128
	LOCKHEED MISSILES & SPACE CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Op Sys	6,931
	LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Op Sys	4,555
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,537
			USAF	RDTE/Electronics & Communication Eq-Op Sys	13,023
		STATE TOTAL			987
	LOGICON INC	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	146
	LORAL AEROSPACE CORP	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	36,322
			USAF	RDTE/Electronics & Communication Eq-Op Sys	36,468
		STATE TOTAL			8,440
		Colorado	ARMY	RDTE/Electronics & Communication Eq-Op Sys	13,533
		Kansas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	58,441
	CONTRACTOR TOTAL				885
	LORAL CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC65 (CONTINUED)					
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	\$ 5,916
	M/A-COM INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	150
	MAGNAVOX GOVT & INDSTR ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	160-
		Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	35,227
	CONTRACTOR TOTAL				35,067
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	8,473
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Op Sys	39,594
	MILTOPE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	6,838
	MODERN TECHNOLOGIES CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,709
		Ohio	ARMY	RDTE/Electronics & Communication Eq-Op Sys	2,376
	CONTRACTOR TOTAL				6,085
	NCI INFORMATION SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	110
	OGDEN GOVERNMENT SERVICES CIRP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	450
	PACIFIC POWER SOURCE CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	391
	PARAMAX SYSTEMS CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	100
		New Mexico	NAVY	RDTE/Electronics & Communication Eq-Op Sys	223
		New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,000
			USAF	RDTE/Electronics & Communication Eq-Op Sys	64,896
	STATE TOTAL				65,896
		Virginia	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,748
	CONTRACTOR TOTAL				67,967
	PENNSYLVANIA STATE UNIVERSITY	Penn	ARMY	RDTE/Electronics & Communication Eq-Op Sys	100
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	18,990
	STATE TOTAL				19,090
		Texas	NAVY	RDTE/Electronics & Communication Eq-Op Sys	4,775

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AC65 (CONTINUED)					
	CONTRACTOR TOTAL				
	PHOENIX SYSTEMS TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	23,864
	POLAR ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	313
	PRC INC	Oklahoma	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,095
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	233
	CONTRACTOR TOTAL				6,380
	PRC/ORI JV	Alabama	ARMY	RDTE/Electronics & Communication Eq-Op Sys	6,613
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	106
	CONTRACTOR TOTAL				253
	PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	359
	R J O ENTERPRISES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,049
	RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	6,996 76,703 9,832
	STATE TOTAL				86,534
	RESEARCH & DEV LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	183
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	37-
		Iowa	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	8,224 1,103
	STATE TOTAL				9,328
		Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	400-
	CONTRACTOR TOTAL				8,891
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	12,304
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,133
	SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	542
	SIERRA CYBERNETICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	288

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AC65 (CONTINUED)					
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Op Sys	\$ 1,444
	SRI INTERNATIONAL	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	150 1,200
		STATE TOTAL			1,350
	SYSTEM RESOURCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	4,140
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	884
	SYSTEMS INTEGRATION & DEV INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	630
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	114-
	T S C INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	487
	TECHNOLOGY APPLICATIONS SVC CO	Maryland	USAF	RDTE/Electronics & Communication Eq-Op Sys	51
	TELENEX CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	486
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	220
	TIBURON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	49
	TRW INC	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	75,865 455 35,605
		STATE TOTAL			111,925
	UNISYS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	398
		Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	24,920
					25,318
	CONTRACTOR TOTAL				6,963
	UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	175
	VAL-COMM INC	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Op Sys	857
	WESSON INTERNATIONAL INC	Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	318
	WHITTAKER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	1,409,786
	R&D TOTAL				

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AC66	ADVANCED COMPUTER SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 930
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	250
	ADVANCED RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	302
	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	AMERICAN GNC CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	225
	ANALYSIS CONSULTANTS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	250
	ATEAM CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	165
	AURORA ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	500
	CENTER FOR REMOTE SENSING	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	CRYSTAL ASSOCIATES INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	CRYSTALLUME	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	137
	DATA FUSION CORP	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	DELFIN SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	DEUTSCHE BUNDESPOST	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	37-
		ITALY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	27
	CONTRACTOR TOTAL				10-
	ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Mgmt &	114
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	470
	EMC SCIENCE CTR INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	170
	ENVIRNMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Electronics & Communication Eq-Mgmt &	119
	EPI CHORUS CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	FAILURE GROUP INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	91
		USAF		RDTE/Electronics & Communication Eq-Mgmt &	193
	STATE TOTAL				283
	FOSTER MILLER INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	38

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AC66 (CONTINUED)					
	HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	285
	ICE CORPORATION	Kansas	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	31
	INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	39
	INTERMETRICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	451
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	221
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	45
	KACHINA TECHNOLOGIES INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &	221
	L & W RESEARCH INC	Conn	USAF	RDTE/Electronics & Communication Eq-Mgmt &	218
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	70
	MAGNAVOX GOVT & INDSTRL ELCTR	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	404
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &	770
	MAXDEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	48
	OPTIMIZATION TECHNOLOGY INC	Alabama	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	270
	PAGE AUTOMATED TELECOM SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	325
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	PRC INC	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &	44-
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	145
	CONTRACTOR TOTAL				101
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	171
	RF COMPONENTS	Mass	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	73
	SCIENCE & APPLIED TECHNOLOGY	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	250
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	42
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	460
	STATE TOTAL				502

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AC66	(CONTINUED)				
	SCIENTIFIC-ATLANTA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 113
	SOHAR INCORPORATED	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	250
	SYNETICS CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	TAU CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	73
	THINKALONG SOFTWARE INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	489
	U T L CORPORATION	Texas	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	64
		GERMANY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	138
	CONTRACTOR TOTAL				202
	VEDA INCORPORATED	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	230
	R&D TOTAL				10,243
AC91	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Misc Hard Goods-Basic Research	575
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Misc Hard Goods-Basic Research	63
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	118
	FIBERTEK INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	150
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Basic Research	47
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Misc Hard Goods-Basic Research	619
	S S G INC	Mass	NAVY	RDTE/Misc Hard Goods-Basic Research	325
	SYSTEMS & ELECTRONICS INC	Illinois	NAVY	RDTE/Misc Hard Goods-Basic Research	922
	TEKTRONIX INC	Oregon	NAVY	RDTE/Misc Hard Goods-Basic Research	200
	R&D TOTAL				3,019
AC92	EG&G WASHINGTON ANALYTICAL SVC	Virginia	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	38
	ELECTRONIC POWER CONDITIONING	Oregon	ARMY	RDTE/Misc Hard Goods-Exploratory Developme	249
	GENERAL ELECTRIC COMPANY	Ohio	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	1,185
	GRUNMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	450
	MAC AULAY BROWN INC	Ohio	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	50

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AC92 (CONTINUED)					
	MASSACHUSETTS INST OF TECHNOLOG	Mass	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	\$ 118
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	522
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	131
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	90
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	41
R&D TOTAL					
					2,873
AC93	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Misc Hard Goods-Advanced Development	3,497
	DEFENSE GROUP INC	Virginia	ARMY	RDTE/Misc Hard Goods-Advanced Development	968
	E I C LABORATORY INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	494
	G & F COMPANY	California	ARMY	RDTE/Misc Hard Goods-Advanced Development	2,718
	HERCULES INCORPORATED	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	460
	KLA INSTRUMENTS CORPORATION	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	826
	LOCKHEED ENGINEERING & SCIENCE	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	4,088
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Misc Hard Goods-Advanced Development	6,515
	LORAL CORP	Arizona	ARMY	RDTE/Misc Hard Goods-Advanced Development	88
	MASSACHUSETTS INST OF TECHNOLOG	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	777
	MOTOROLA INC	Arizona	NAVY	RDTE/Misc Hard Goods-Advanced Development	1,534
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	441
	SCIENTIFIC MEASUREMENT SYSTEMS	Texas	NAVY	RDTE/Misc Hard Goods-Advanced Development	630
	SORRENTO ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	50
R&D TOTAL					
					23,088
AC94	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Misc Hard Goods-Engr Development	50
	AEROSPACE MASS PRPTS ANALIS	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	366
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Misc Hard Goods-Engr Development	175

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AC94 (CONTINUED)					
	ALLOY SURFACES CO	Delaware	NAVY	RDTE/Misc Hard Goods-Engr Development	\$ 54
	GENERAL ELECTRIC COMPANY	Alabama	NAVY	RDTE/Misc Hard Goods-Engr Development	2,207
		Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	10,940
	CONTRACTOR TOTAL				13,147
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Misc Hard Goods-Engr Development	997
	I L C INDUSTRIES DELAWARE	Delaware	ARMY USAF	RDTE/Misc Hard Goods-Engr Development RDTE/Misc Hard Goods-Engr Development	504 500
	STATE TOTAL				1,004
	ILC DOVER INC	Delaware	USAF	RDTE/Misc Hard Goods-Engr Development	186
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc Hard Goods-Engr Development	1,990
	MULTI ELECTRIC MFG INC	Illinois	USAF	RDTE/Misc Hard Goods-Engr Development	85
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Misc Hard Goods-Engr Development	1,081
	UNISYS CORPORATION	Florida	NAVY	RDTE/Misc Hard Goods-Engr Development	144
	R&D TOTAL				19,278
AC95	ANDRULIS RESEARCH CORPORATION	Utah	ARMY	RDTE/Misc Hard Goods-Op Systems Development	710
	BACHUR JERRY & ASSOCIATES	California	ARMY	RDTE/Misc Hard Goods-Op Systems Development	78
	BEI MOTION SYSTEMS COMPANY	Arkansas	USAF	RDTE/Misc Hard Goods-Op Systems Development	317
	JALORDS INC	Penn	NAVY	RDTE/Misc Hard Goods-Op Systems Development	144
	LORAL CORP	California	NAVY	RDTE/Misc Hard Goods-Op Systems Development	18,650
	MNEMONICS INC	Florida	NAVY	RDTE/Misc Hard Goods-Op Systems Development	1,354
	OLIN CORPORATION	Tennessee	ARMY	RDTE/Misc Hard Goods-Op Systems Development	869
	RELM COMMUNICATIONS INC	Kansas	NAVY	RDTE/Misc Hard Goods-Op Systems Development	53
	SICOM INC	Arizona	USAF	RDTE/Misc Hard Goods-Op Systems Development	150
	THIokol CORPORATION	Maryland	ARMY	RDTE/Misc Hard Goods-Op Systems Development	1,250

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AC95 (CONTINUED)					
	UNITED STATES DEPT OF ENERGY	New Mexico	NAVY	RDTE/Misc Hard Goods-Op Systems Development	258
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Misc Hard Goods-Op Systems Development	1,762
	R&D TOTAL				25,595
AC96	ADVANCED CINTERMEASURE SYSTEMS	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	48
	AEROTECH ENGR & RES	Kansas	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50
	BIO-IMAGING RESEARCH INC	Illinois	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50
	CONTRAVES USA INC	Penn	USAF	RDTE/Misc Hard Goods-Mgmt & Support	300
	FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Misc Hard Goods-Mgmt & Support	256
	MOLTEN SALT TECHNOLOGY INC	Tennessee	USAF	RDTE/Misc Hard Goods-Mgmt & Support	160
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	149
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Misc Hard Goods-Mgmt & Support	47
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	454
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Misc Hard Goods-Mgmt & Support	1,180
	TPL COMMUNICATIONS	New Mexico	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	54
	R&D TOTAL				2,748
AD11	ENSCO INC	Virginia	ARMY	RDTE/Ammunition-Basic Research	396
	GENCORP INC	California	ARMY	RDTE/Ammunition-Basic Research	650
	PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Ammunition-Basic Research	53
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Ammunition-Basic Research	242
	SWEDISH ORDNANCE	SWEDEN	USAF	RDTE/Ammunition-Basic Research	844
	UNIVERSITY OF DELAWARE	Delaware	USAF	RDTE/Ammunition-Basic Research	80
	R&D TOTAL				2,265
AD12	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Exploratory Development	1,345
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Ammunition-Exploratory Development	80

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AD12 (CONTINUED)

ARMTEC DEFENSE PRODUCTS CO	California	ARMY	RDTE/Ammunition-Exploratory Development	\$	98
CERAMATEC INC	Utah	USAF	RDTE/Ammunition-Exploratory Development		245
CHAMBERLAIN MANUFACTURING CORP	Penn	ARMY	RDTE/Ammunition-Exploratory Development		360
COMPACT SOFTWARE INC	New Jersey	USAF	RDTE/Ammunition-Exploratory Development		267
DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Ammunition-Exploratory Development		1,254
ENIG ASSOCIATES INC	Maryland	NAVY	RDTE/Ammunition-Exploratory Development		146
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ammunition-Exploratory Development		235
GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Ammunition-Exploratory Development		50
GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Ammunition-Exploratory Development		64
GLOBE RUBBER WORKS INC	Mass	NAVY	RDTE/Ammunition-Exploratory Development		461
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Ammunition-Exploratory Development		69
LUFKIN INDUSTRIES INC	Texas	NAVY	RDTE/Ammunition-Exploratory Development		1,100
MCQ ASSOCIATES INC	Virginia	NAVY	RDTE/Ammunition-Exploratory Development		40
RANN INC	California	USAF	RDTE/Ammunition-Exploratory Development		36
S F A INC	D.C.	NAVY	RDTE/Ammunition-Exploratory Development		1,152
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Ammunition-Exploratory Development		203
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Ammunition-Exploratory Development		33
R&D TOTAL					7,238
AD13 AEROJET	California	ARMY	RDTE/Ammunition-Advanced Development		850
ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Advanced Development		29,586
		NAVY	RDTE/Ammunition-Advanced Development		98
		USAF	RDTE/Ammunition-Advanced Development		1,657
STATE TOTAL					31,341
ARMTEC DEFENSE PRODUCTS CO	California	ARMY	RDTE/Ammunition-Advanced Development		360
ASTROSYSYSTEMS INC	Delaware	USAF	RDTE/Ammunition-Advanced Development		286

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AD13 (CONTINUED)					
	ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Ammunition-Advanced Development	43
	AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Advanced Development	30,586
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Ammunition-Advanced Development	311
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	48,307
	NORTHROP CORPORATION	California	USAF	RDTE/Ammunition-Advanced Development	144
	OLIN CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	17,481
		Illinois	NAVY	RDTE/Ammunition-Advanced Development	800
	CONTRACTOR TOTAL				18,281
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Ammunition-Advanced Development	816
	SEMCOR INC	New Jersey	NAVY	RDTE/Ammunition-Advanced Development	2,200
	SPARTA INC	California	ARMY	RDTE/Ammunition-Advanced Development	1,000
	TALLEY DEFENSE SYSTEMS INC	Arizona	ARMY	RDTE/Ammunition-Advanced Development	62-
	R&D TOTAL				134,462
AD14	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Engineering Development	442
	AEROJET	California	ARMY NAVY	RDTE/Ammunition-Engineering Development RDTE/Ammunition-Engineering Development	119,184 1,413
	STATE TOTAL				120,597
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	32,279
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Ammunition-Engineering Development	50
	CHAMBERLAIN MANUFACTURING CORP	Iowa	NAVY	RDTE/Ammunition-Engineering Development	360
	DYNAMIT NOBEL AG	GERMANY	ARMY	RDTE/Ammunition-Engineering Development	421
	KEMP CORPORATION	Tennessee	NAVY	RDTE/Ammunition-Engineering Development	49
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Ammunition-Engineering Development	1,212
	MATERIALS ANALYSIS INC	Texas	NAVY	RDTE/Ammunition-Engineering Development	35

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AD14 (CONTINUED)					
	MOTOROLA INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development	405
	NORTHROP CORPORATION	California	ARMY	RDTE/Ammunition-Engineering Development	1,169
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Ammunition-Engineering Development	49
	SCIENTIFIC APLICAT RES ASSOC	California	ARMY	RDTE/Ammunition-Engineering Development	115
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Ammunition-Engineering Development	50
	SPARTA INC	California	ARMY	RDTE/Ammunition-Engineering Development	3,241
	SPECTRUM MANAGEMENT GROUP INC	Virginia	ARMY	RDTE/Ammunition-Engineering Development	166
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Ammunition-Engineering Development	50
	R&D TOTAL				160,752
AD15	ALLIANT TECHSYSTEMS INC	Penn	ARMY	RDTE/Ammunition-Operational Systems Develo	26
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Operational Systems Develo	203
	PULLMAN HOLDING CORP	New Jersey	ARMY	RDTE/Ammunition-Operational Systems Develo	18,721
	R&D TOTAL				18,950
AD16	BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Ammunition-Management & Support	550
	CERAMPHYSICS INC	Ohio	USAF	RDTE/Ammunition-Management & Support	250
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Ammunition-Management & Support	200
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Management & Support	1,037
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Ammunition-Management & Support	288
	KDI PRECISION PRODUCTS INC	Ohio	ARMY	RDTE/Ammunition-Management & Support	313
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Ammunition-Management & Support	101
	R&D TOTAL				2,739
AD21	ADVANCED ROTORCRAFT TECHNOLOGY	California	NAVY	RDTE/Services-Basic Research	50
	ALLIANCE TECHNOLOGIES CORP	Mass	ARMY	RDTE/Services-Basic Research	162
	AMERICAN SOC FOR TSTG MTRIALS	Penn	ARMY	RDTE/Services-Basic Research	63

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AD21 (CONTINUED)	AMERICOM	Rhode Isld	NAVY	RDTE/Services-Basic Research	\$ 150
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Basic Research	201
	ANTARES GROUP INC	California	NAVY	RDTE/Services-Basic Research	162
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Basic Research	98
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Services-Basic Research	65
	ASI SYSTEMS INTERNATIONAL	California	NAVY	RDTE/Services-Basic Research	4,246
	BOEING COMPANY THE	Washington	NAVY	RDTE/Services-Basic Research	142
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Services-Basic Research	1,200
	COGNITIVE TECHNOLOGIES	Virginia	ARMY	RDTE/Services-Basic Research	144
	DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Basic Research	76
	DATATAPE INCORPORATED	California	NAVY	RDTE/Services-Basic Research	374
	DIVERSIFIED TECHNOLOGIES INC	Mass	NAVY	RDTE/Services-Basic Research	51
	ENGINEERING CMPT OPTECNOMICS	Maryland	NAVY	RDTE/Services-Basic Research	30
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Basic Research	939
	ETA TECHNOLOGIES CORPORATION	California	NAVY	RDTE/Services-Basic Research	466
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Services-Basic Research	225
	GTE GOVERNMENT SYSTEMS CORP	Mass	USAF	RDTE/Services-Basic Research	270
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Services-Basic Research	548
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Basic Research	34
	HUMAN FACTORS SOLUTIONS INC	Maryland	USAF	RDTE/Services-Basic Research	365
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Services-Basic Research	129
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Services-Basic Research	300
	INTELLIGENT AUTOMATION INC	Maryland	NAVY	RDTE/Services-Basic Research	50
	JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Services-Basic Research	246

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD21 (CONTINUED)	MARINE TECHNOLOGIES GROUP INC	Ohio	NAVY	RDTE/Services-Basic Research	49
	MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Services-Basic Research	689
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Services-Basic Research	365
	MING OF UTAH INC	Conn	NAVY	RDTE/Services-Basic Research	30
	MONTEREY TECHNOLOGIES INC	California	NAVY	RDTE/Services-Basic Research	50
	NABAGENEPT RESEARCG INSTITUTE	Maryland	ARMY	RDTE/Services-Basic Research	190
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Basic Research	363
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Services-Basic Research	111
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Services-Basic Research	4,750
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Basic Research	125
	SRI INTERNATIONAL	California	USAF	RDTE/Services-Basic Research	587
	SUPPORT CONTG SYSTEMS J/V	California	NAVY	RDTE/Services-Basic Research	2,814
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Services-Basic Research	258
	SYSTEMS RESOURCE MANAGEMENT	Rhode Isld	NAVY	RDTE/Services-Basic Research	40
	SYSTEMS SOFTWARE ENGINEERING	Maryland	NAVY	RDTE/Services-Basic Research	68
	TASC	Mass	USAF	RDTE/Services-Basic Research	450
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Basic Research	105
	U S SPRINT CMMNCTIONS LTD PRTR	Virginia	USAF	RDTE/Services-Basic Research	175
	UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Basic Research	126
	UNITED STATES DEPT OF ENERGY	Miss	NAVY	RDTE/Services-Basic Research	170
	UNIVERSITY OF KANSAS	Kansas	USAF	RDTE/Services-Basic Research	166
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Services-Basic Research	171
	WOODS HOLE OCEANOGRAPHIC INST	Mass	NAVY	RDTE/Services-Basic Research	255
		Rhode Isld	NAVY	RDTE/Services-Basic Research	45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	CONTRACTOR TOTAL				
R&D TOTAL					
AD22	ALLIANT TECHSYSTEMS INC	Minnesota	USAF	RDTE/Services-Exploratory Development	300
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Exploratory Development	22,938
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Exploratory Development	260
		Rhode Isld	NAVY	RDTE/Services-Exploratory Development	75
		Virginia	NAVY	RDTE/Services-Exploratory Development	704
					900
					83
	CONTRACTOR TOTAL				1,687
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Exploratory Development	30
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Exploratory Development	30
		Rhode Isld	NAVY	RDTE/Services-Exploratory Development	77
	CONTRACTOR TOTAL				107
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Exploratory Development	394
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Exploratory Development	281
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Services-Exploratory Development	460
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Services-Exploratory Development	250
			USAF	RDTE/Services-Exploratory Development	5,467
	STATE TOTAL				5,717
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Exploratory Development	159
	BIOSONICS INC	Conn	NAVY	RDTE/Services-Exploratory Development	49
	BIRD-JOHNSON CO	Mass	NAVY	RDTE/Services-Exploratory Development	113
	BOEING AEROSPACE OPERATIONS	Washington	NAVY	RDTE/Services-Exploratory Development	28
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Exploratory Development	212
	BRIGHAM YOUNG UNIVERSITY	Utah	NAVY	RDTE/Services-Exploratory Development	38
	CALIFORNIA RESEARCH & TECH	California	NAVY	RDTE/Services-Exploratory Development	101

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD22 (CONTINUED)

CHASE INC	Mass	NAVY	RDTE/Services-Exploratory Development	\$	49
CHENSYS INC	Ohio	USAF	RDTE/Services-Exploratory Development		543
CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Exploratory Development		45
CIMFLEX TEKNOLEDGE CORP	California	ARMY	RDTE/Services-Exploratory Development		1,100
COGNITIVE TECHNOLOGIES	Virginia	NAVY	RDTE/Services-Exploratory Development		93
COLORADO SEMINARY	Colorado	NAVY	RDTE/Services-Exploratory Development		282
CONDUCTUS INC	California	NAVY	RDTE/Services-Exploratory Development		50
DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Exploratory Development		116
DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Services-Exploratory Development		295
E M L RESEARCH	Mass	NAVY	RDTE/Services-Exploratory Development		635
ENZIAN TECHNOLOGY INC	Florida	NAVY	RDTE/Services-Exploratory Development		113
FLORIDA MAXIMA CORP	Florida	NAVY	RDTE/Services-Exploratory Development		60
FMC CORPORATION	Minnesota	ARMY	RDTE/Services-Exploratory Development		30-
GENERAL ELECTRIC COMPANY	Penn	ARMY	RDTE/Services-Exploratory Development		98
GEORGIA TECH RESEARCH CORP	Georgia	ARMY NAVY	RDTE/Services-Exploratory Development RDTE/Services-Exploratory Development		200 60
		STATE TOTAL			260
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Exploratory Development		49
HYDROACOUSTICS INC	New York	NAVY	RDTE/Services-Exploratory Development		64
IMATRON INC	California	ARMY	RDTE/Services-Exploratory Development		250
INTELLICORP	Virginia	NAVY	RDTE/Services-Exploratory Development		50
INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Services-Exploratory Development		450
INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Services-Exploratory Development		213
LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Services-Exploratory Development		254

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD22 (CONTINUED)

LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Services-Exploratory Development	\$	570
MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Services-Exploratory Development		3,000
MILES RICHARD E	New York	NAVY	RDTE/Services-Exploratory Development		200-
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Exploratory Development		280
	New Mexico	NAVY	RDTE/Services-Exploratory Development		588
CONTRACTOR TOTAL					868
NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Exploratory Development		820
NICHOLS RESEARCH CORPORATION	Alabama	NAVY	RDTE/Services-Exploratory Development		97
OCEAN & ATMOSPHERIC SCIENCE	New York	NAVY	RDTE/Services-Exploratory Development		85
OCEAN ACOUSTICS ASSOCIATES	Mass	NAVY	RDTE/Services-Exploratory Development		42
	Rhode Islnd	NAVY	RDTE/Services-Exploratory Development		423
CONTRACTOR TOTAL					465
OCEANIC DEVELOPMENT CO	N.H.	NAVY	RDTE/Services-Exploratory Development		70
ODYSSEY RESEARCH ASSOCIATES	New York	ARMY	RDTE/Services-Exploratory Development		187
OPTICS 1 INC	California	NAVY	RDTE/Services-Exploratory Development		259
ORA CORPORATION	New York	ARMY	RDTE/Services-Exploratory Development		692
ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Exploratory Development		144
PARAMAX SYSTEMS CORP	Minnesota	NAVY	RDTE/Services-Exploratory Development		50
	New York	NAVY	RDTE/Services-Exploratory Development		86
CONTRACTOR TOTAL					136
QUESTECH INC	Virginia	NAVY	RDTE/Services-Exploratory Development		439
RAYTHEON COMPANY	Rhode Islnd	NAVY	RDTE/Services-Exploratory Development		140
RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Exploratory Development		99
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Services-Exploratory Development		37

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD22 (CONTINUED)

	STATE TOTAL	NAVY	RDTE/Services-Exploratory Development	\$	180
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Exploratory Development		217
	Conn	NAVY	RDTE/Services-Exploratory Development		1,526
	Hawaii	NAVY	RDTE/Services-Exploratory Development		157
CONTRACTOR TOTAL					649-
SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Services-Exploratory Development		1,034
SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Services-Exploratory Development		153
SONALYSTS INC	Conn	NAVY	RDTE/Services-Exploratory Development		525
	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		391
CONTRACTOR TOTAL					75
SOUTHEASTN CTR ELECTR ENG ED	Florida	ARMY	RDTE/Services-Exploratory Development		466
STRAPDOWN ASSOCIATES INC	Minnesota	NAVY	RDTE/Services-Exploratory Development		240
SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Services-Exploratory Development		82
SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Exploratory Development		134
	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		150
CONTRACTOR TOTAL					40
T S C INC	Conn	NAVY	RDTE/Services-Exploratory Development		190
TECHNOLOGY APPLICATIONS SVC CO	Maryland	NAVY	RDTE/Services-Exploratory Development		147
TETRA CORPORATION	New Mexico	NAVY	RDTE/Services-Exploratory Development		175
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Exploratory Development		411
TRIDENT INTERNATIONAL INC	Florida	NAVY	RDTE/Services-Exploratory Development		426
TRW INC	Virginia	NAVY	RDTE/Services-Exploratory Development		43
UNISYS CORPORATION	Alabama	NAVY	RDTE/Services-Exploratory Development		260
					97

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD22 (CONTINUED)

UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development	\$	3,493
UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Services-Exploratory Development		82
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Services-Exploratory Development		150
UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Services-Exploratory Development		45
UNIVERSITY OF RHODE ISLAND	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		40
UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Services-Exploratory Development		85
UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development		42
UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Services-Exploratory Development		150
R&D TOTAL					31,307
AD23 AC INC	Alabama	ARMY	RDTE/Services-Advanced Development		827
ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Services-Advanced Development		150
ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Advanced Development		1,754
AEPCO INC	Maryland	NAVY	RDTE/Services-Advanced Development		2,730
ALLIANT TECHSYSTEMS INC	Rhode Isld	NAVY	RDTE/Services-Advanced Development		46
	Virginia	NAVY	RDTE/Services-Advanced Development		77
	Washington	NAVY	RDTE/Services-Advanced Development		121
CONTRACTOR TOTAL					245
ALLIED SIGNAL INC	California	NAVY	RDTE/Services-Advanced Development		3,125
	Conn	NAVY	RDTE/Services-Advanced Development		2,300
CONTRACTOR TOTAL					5,425
AMHERST SYSTEMS INC	New York	NAVY	RDTE/Services-Advanced Development		683
ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Advanced Development		10,876
APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Advanced Development		1,610
	Florida	NAVY	RDTE/Services-Advanced Development		250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

CONTRACTOR TOTAL

AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Services-Advanced Development	\$	1,860
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Advanced Development		292
ASTRON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		296
AUTEL SERVICES INC	California	NAVY	RDTE/Services-Advanced Development		45
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Services-Advanced Development		225
BABINGTON ENGINEERING	Virginia	ARMY	RDTE/Services-Advanced Development		1,140
BALL CORPORATION	Ohio	USAF	RDTE/Services-Advanced Development		296
BATTELLE DEVELOPMENT CORP	Ohio	USAF	RDTE/Services-Advanced Development		1,612
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Advanced Development		470
BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Advanced Development		981
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Services-Advanced Development		2,291
	Virginia	NAVY	RDTE/Services-Advanced Development		284
					125
					409
					75
C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Advanced Development		75
CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Services-Advanced Development		53
CORNELL UNIVERSITY	New York	NAVY	RDTE/Services-Advanced Development		866
DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Advanced Development		100
DEEGAN RESEARCH GROUP INC	Rhode Isld	NAVY	RDTE/Services-Advanced Development		51
DJC ANALYTICS	Rhode Isld	NAVY	RDTE/Services-Advanced Development		250
DOE IDAHO OPERATIONS OFFICE	Idaho	NAVY	RDTE/Services-Advanced Development		417
DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Services-Advanced Development		265
DYNATRON CORPORATION	Mass	NAVY	RDTE/Services-Advanced Development		418
EDG CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		

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AD23 (CONTINUED)					
	EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Advanced Development	1,542
	ELDYNE INC	Conn	NAVY	RDTE/Services-Advanced Development	27
	ENGINEERING RESEARCH ASSOC	Virginia	NAVY	RDTE/Services-Advanced Development	498
	EPOCH ENGINEERING INC	Conn	NAVY	RDTE/Services-Advanced Development	271
	ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Advanced Development	510
	FMC CORPORATION	Minnesota	NAVY	RDTE/Services-Advanced Development	48
	FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Advanced Development	673
	GAMBOA INTERNATIONAL CONSULTIN	Virginia	ARMY	RDTE/Services-Advanced Development	88
	GEC MARCONI CO LTD	Conn	NAVY	RDTE/Services-Advanced Development	39
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development	27
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Services-Advanced Development	1,524
		Virginia	NAVY	RDTE/Services-Advanced Development	96
	CONTRACTOR TOTAL				1,619
	GRACE W R & CO INC	Mass	NAVY	RDTE/Services-Advanced Development	72
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Services-Advanced Development	497
	HILTON SYSTEMS INC	Miss	ARMY	RDTE/Services-Advanced Development	1,344
	HITACHI DENSHI AMERICA LTD	Conn	NAVY	RDTE/Services-Advanced Development	100
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Advanced Development	770
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	400
	CONTRACTOR TOTAL				1,170
	INNOVATIVE TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Advanced Development	855
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Services-Advanced Development	146
		Virginia	NAVY	RDTE/Services-Advanced Development	170
	CONTRACTOR TOTAL				316

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	INTERMETRICS INC	New Mexico	USAF	RDTE/Services-Advanced Development	2,235
		Penn	NAVY	RDTE/Services-Advanced Development	4,999
	CONTRACTOR TOTAL				7,234
	INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Services-Advanced Development	1,050
	ISA ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development	50
	JIL SYSTEMS INC	Conn	NAVY	RDTE/Services-Advanced Development	105
	KENROB AND ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development	336
	KPMG PEAT MARWICK	Conn	NAVY	RDTE/Services-Advanced Development	300
	L B & M ASSOCIATES INC	Oklahoma	NAVY	RDTE/Services-Advanced Development	49
	LEHMAN A F ASSOCIATES	New York	NAVY	RDTE/Services-Advanced Development	28
	LINDSEY WILLIAM C INC	Conn	NAVY	RDTE/Services-Advanced Development	90
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development	2,727
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Advanced Development	140
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Services-Advanced Development	500
	LOGICON INC	Conn	NAVY	RDTE/Services-Advanced Development	32
	MAGNAVOX GOVT & INDSTR ELCTR	New York	NAVY	RDTE/Services-Advanced Development	74
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Advanced Development	100
	MCLAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Advanced Development	826
		Mass	NAVY	RDTE/Services-Advanced Development	50
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	65
	CONTRACTOR TOTAL				941
	MILES RICHARD E	New York	NAVY	RDTE/Services-Advanced Development	389
	MING OF UTAH INC	Conn	NAVY	RDTE/Services-Advanced Development	346
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	90
	CONTRACTOR TOTAL				436

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	MINISTRY OF DEFENSE UK	UNITED KIN	ARMY	RDTE/Services-Advanced Development	1,820
	MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Advanced Development	246
	NORTH COAST INNOVATION INC	Ohio	NAVY	RDTE/Services-Advanced Development	50
	NORTHROP CORPORATION	California	NAVY	RDTE/Services-Advanced Development	300
	NORTHWEST RESEARCH ASSOC JV	Washington	NAVY	RDTE/Services-Advanced Development	80
	OCEAN ACOUSTICS ASSOCIATES	Rhode Isld	NAVY	RDTE/Services-Advanced Development	120
	OMNI ANALYSIS INC	Conn	NAVY	RDTE/Services-Advanced Development	644
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Services-Advanced Development	90
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Services-Advanced Development	6,156
	PARAMAX SYSTEMS CORP	Minnesota	NAVY	RDTE/Services-Advanced Development	100
	PARKER DRILLING COMPANY	Texas	ARMY	RDTE/Services-Advanced Development	1,800
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Advanced Development	4,494
	PRECISION SIGNAL INC	Florida	NAVY	RDTE/Services-Advanced Development	100
	PROMETHEUS INC	Rhode Isld	NAVY	RDTE/Services-Advanced Development	55
	QUEST'CH INC	Ohio	USAF	RDTE/Services-Advanced Development	1,781
	RADANT TECHNOLOGIES INC	Mass	NAVY	RDTE/Services-Advanced Development	43
	RAIL COMPANY	Virginia	ARMY	RDTE/Services-Advanced Development	60
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Advanced Development	344
	SCIENCE APPLICATIONS INTL CORP	Conn	NAVY	RDTE/Services-Advanced Development	1,732
		Ohio	USAF	RDTE/Services-Advanced Development	566
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	219
		Virginia	NAVY	RDTE/Services-Advanced Development	450
	CONTRACTOR TOTAL				2,967
	SEMCOR INC	New Jersey	NAVY	RDTE/Services-Advanced Development	120
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Advanced Development	2,881

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

SRI INTERNATIONAL	California	NAVY	RDTE/Services-Advanced Development	\$	40
CONTRACTOR TOTAL	Conn	NAVY	RDTE/Services-Advanced Development		45
STATCOM INC	Virginia	NAVY	RDTE/Services-Advanced Development		85
STRATEGIC FINCL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Advanced Development		45
STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Advanced Development		45
SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		982
	Conn	NAVY	RDTE/Services-Advanced Development		373
	Rhode Isld	NAVY	RDTE/Services-Advanced Development		453
CONTRACTOR TOTAL					827
SYSTEMS CONTROL TECHNOLOGY	California	ARMY	RDTE/Services-Advanced Development		262
SYSTEMS ENGINEERING ASSOCIATES	Conn	NAVY	RDTE/Services-Advanced Development		171
	Rhode Isld	NAVY	RDTE/Services-Advanced Development		525
CONTRACTOR TOTAL					696
SYSTEMS INTEGRATION & RESEARCH	Rhode Isld	NAVY	RDTE/Services-Advanced Development		372
	Virginia	NAVY	RDTE/Services-Advanced Development		88
CONTRACTOR TOTAL					460
T S C INC	Conn	NAVY	RDTE/Services-Advanced Development		93
THIokol CORPORATION	Utah	USAF	RDTE/Services-Advanced Development		126
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Advanced Development		2,498
	Maryland	NAVY	RDTE/Services-Advanced Development		70
	Texas	NAVY	RDTE/Services-Advanced Development		463
CONTRACTOR TOTAL					3,031
TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Services-Advanced Development		129
TRW INC	California	NAVY	RDTE/Services-Advanced Development		106

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

	CONTRACTOR TOTAL				\$	1,953
UNITED INTERNATIONAL ENGRG		Conn	NAVY	RDTE/Services-Advanced Development		
UNITED STATES DEPT OF COMMERCE		Virginia	NAVY	RDTE/Services-Advanced Development		1,758
UNITED STATES DEPT OF ENERGY		New Mexico	NAVY	RDTE/Services-Advanced Development		3,818
		Colorado	NAVY	RDTE/Services-Advanced Development		50
		California	NAVY	RDTE/Services-Advanced Development		392
		Oklahoma	NAVY	RDTE/Services-Advanced Development		53
						222
						275
CONTRACTOR TOTAL						38
UNIVERSITY OF CENTRAL FLORIDA		Florida	NAVY	RDTE/Services-Advanced Development		
UNIVERSITY OF DAYTON		Ohio	USAF	RDTE/Services-Advanced Development		70
UNIVERSITY OF NEW MEXICO		New Mexico	USAF	RDTE/Services-Advanced Development		515
UNIVERSITY OF RHODE ISLAND		Rhode Isl	NAVY	RDTE/Services-Advanced Development		38
VECTOR RESEARCH COMPANY INC		Maryland	NAVY	RDTE/Services-Advanced Development		92
VEDA INCORPORATED		Penn	NAVY	RDTE/Services-Advanced Development		105
VISTA CONTROLS INC		Conn	NAVY	RDTE/Services-Advanced Development		102
VITRO CORPORATION		Penn	NAVY	RDTE/Services-Advanced Development		1,136
		Rhode Isl	NAVY	RDTE/Services-Advanced Development		30
CONTRACTOR TOTAL						1,166
VITRONICS INC		New Jersey	ARMY	RDTE/Services-Advanced Development		6,739
WAGNER DANIEL H ASSOCIATES		Penn	NAVY	RDTE/Services-Advanced Development		37
WATKINS-JOHNSON COMPANY		California	NAVY	RDTE/Services-Advanced Development		484
WESTINGHOUSE ELECTRIC CORP		Maryland	NAVY	RDTE/Services-Advanced Development		285
		Ohio	NAVY	RDTE/Services-Advanced Development		193
		Penn	NAVY	RDTE/Services-Advanced Development		100

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

CONTRACTOR TOTAL

WOODS HOLE OCEANOGRAPHIC INST	Mass	NAVY	RDTE/Services-Advanced Development	\$	578
YANKEE SCIENTIFIC INC	Mass	ARMY	RDTE/Services-Advanced Development		75
R&D TOTAL					84
					105,138

AD24 AEROSPACE MASS PRPTS ANALIS

AMERICAN TELEPHONE & TELG CO

AMERON A CALIFORNIA CORP

ANALYSIS & TECHNOLOGY INC

Penn	NAVY	RDTE/Services-Engineering Development	99
Virginia	ARMY	RDTE/Services-Engineering Development	1,419
California	NAVY	RDTE/Services-Engineering Development	46
Conn	NAVY	RDTE/Services-Engineering Development	4,075
Florida	NAVY	RDTE/Services-Engineering Development	3,417
			7,492

CONTRACTOR TOTAL

AQUIDNECK MGT ASSOC LTD	Rhode Isl	NAVY	RDTE/Services-Engineering Development	321
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	180
ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development	702
	USAF	RDTE/Services-Engineering Development	489	
			1,171	

STATE TOTAL

ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Engineering Development	121
BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Services-Engineering Development	345
BLUE CHIP COMPUTERS CO THE	Ohio	USAF	RDTE/Services-Engineering Development	726
BOEING COMPANY THE	Alabama	USAF	RDTE/Services-Engineering Development	415
	Kansas	USAF	RDTE/Services-Engineering Development	13,625
	Texas	NAVY	RDTE/Services-Engineering Development	25
			14,065	

CONTRACTOR TOTAL

BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Engineering Development	508
	Virginia	NAVY	RDTE/Services-Engineering Development	30

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	CONTRACTOR TOTAL				
	BROWN DAYTON T INC	New York	NAVY	RDTE/Services-Engineering Development	537
	C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	165
	CFD RESEARCH CORPORATION	Alabama	NAVY	RDTE/Services-Engineering Development	90
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development	197
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development	134
	COLUMBIA RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	48
	COMTEK RESEARCH INC	California	NAVY	RDTE/Services-Engineering Development	243
	COMPUTER SOFTWARE ANALYSTS	Ohio	USAF	RDTE/Services-Engineering Development	2,114
	CONVENTIONAL MUNITIONS SYSTEMS	Florida	ARMY	RDTE/Services-Engineering Development	418
	DAEDALEAN INC	Virginia	NAVY	RDTE/Services-Engineering Development	336
	DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Engineering Development	445-
	DYNAMICS RESEARCH CORPORATION	Mass	NAVY	RDTE/Services-Engineering Development	271
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Services-Engineering Development	266
	EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Engineering Development	195
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	165
		Virginia	NAVY	RDTE/Services-Engineering Development	251
			NAVY	RDTE/Services-Engineering Development	445
	CONTRACTOR TOTAL				861
	ELDYNE INC	Conn	NAVY	RDTE/Services-Engineering Development	100
	ESSEX CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development	105
	F & M MANUFACTURING INC	Maryland	ARMY	RDTE/Services-Engineering Development	150
	FLORIDA ATLANTIC UNIVERSITY	Florida	NAVY	RDTE/Services-Engineering Development	40
	FORD H J ASSOCIATES INC	Ohio	USAF	RDTE/Services-Engineering Development	159
	FOSTER MILLER INC	Mass	ARMY	RDTE/Services-Engineering Development	205

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	FRONTIER ENGINEERING INC	Ohio	USAF	RDTE/Services-Engineering Development	126
		Oklahoma	USAF	RDTE/Services-Engineering Development	1,054
	CONTRACTOR TOTAL				1,180
	GEMMA CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	45
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development	1,659
		Texas	USAF	RDTE/Services-Engineering Development	1,934
	CONTRACTOR TOTAL				3,592
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Engineering Development	13,673
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Services-Engineering Development	800
	GEORGIA TECH RESEARCH CORP	Conn	NAVY	RDTE/Services-Engineering Development	194
	GNOSTECH INC	Penn	NAVY	RDTE/Services-Engineering Development	159
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Services-Engineering Development	103
	HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Services-Engineering Development	904
	INFORMATION NETWORK SYSTEMS	Penn	NAVY	RDTE/Services-Engineering Development	95
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Services-Engineering Development	680
	INTERMETRICS INC	Penn	NAVY	RDTE/Services-Engineering Development	2,078
	ISA ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Engineering Development	75
	ITT CORPORATION	Florida	USAF	RDTE/Services-Engineering Development	71
	KETRON INC	Penn	NAVY	RDTE/Services-Engineering Development	1,191
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Engineering Development	905
	LINDSEY WILLIAM C INC	Conn	NAVY	RDTE/Services-Engineering Development	1,133
	LOCKHEED AERONAUTICAL SYS CO	California	NAVY	RDTE/Services-Engineering Development	245
	LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Services-Engineering Development	9,213
	LOCKHEED WESTERN EXPORT CO	California	NAVY	RDTE/Services-Engineering Development	196

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DEPARTMENT OF DEFENSE

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AD24 (CONTINUED)

LOGICON INC	Conn	NAVY	RDTE/Services-Engineering Development	51
LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Services-Engineering Development	819
	Penn	NAVY	RDTE/Services-Engineering Development	1,518
CONTRACTOR TOTAL				2,337
LSA INC	California	NAVY	RDTE/Services-Engineering Development	693
MAK TECHNOLOGIES INC	Mass	NAVY	RDTE/Services-Engineering Development	49
MANTECH INTERNATIONAL CORP	Penn	NAVY	RDTE/Services-Engineering Development	70
MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development	84
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Services-Engineering Development	195
	USAF	RDTE/Services-Engineering Development	28	
STATE TOTAL				223
MCLAUGHLIN RESEARCH CORP	New York	NAVY	RDTE/Services-Engineering Development	150
	Rhode Isld	NAVY	RDTE/Services-Engineering Development	126
	Virginia	NAVY	RDTE/Services-Engineering Development	276
MCSI TECHNOLOGIES INC	Conn	NAVY	RDTE/Services-Engineering Development	847
MING OF UTAH INC	Rhode Isld	NAVY	RDTE/Services-Engineering Development	33
CONTRACTOR TOTAL				100
MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Engineering Development	133
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Services-Engineering Development	4,593
NAVVAR APPLIED SCIENCES CORP	Penn	NAVY	RDTE/Services-Engineering Development	471
NICHOLS RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Services-Engineering Development	603
OMNI ANALYSIS INC	Conn	NAVY	RDTE/Services-Engineering Development	598
OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Services-Engineering Development	410
				190

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Engineering Development	315
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development	1,325
	PARAMAX SYSTEMS CORP	California	NAVY	RDTE/Services-Engineering Development	861
	PRC INC	Virginia	USAF	RDTE/Services-Engineering Development	6,198
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Engineering Development	162
	R J O ENTERPRISES INC	Maryland	USAF	RDTE/Services-Engineering Development	264
		Ohio	USAF	RDTE/Services-Engineering Development	268
	CONTRACTOR TOTAL				532
	RAYTHEON COMPANY	Rhode Isl	NAVY	RDTE/Services-Engineering Development	111
	REGENCY SYSTEMS INC	Illinois	NAVY	RDTE/Services-Engineering Development	226
	RESEARCH TECHNOLOGY ASSOCIATES	Arizona	NAVY	RDTE/Services-Engineering Development	42
	RIGEL CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	185
	SACHSE ENGINEERING ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	322
	SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Services-Engineering Development	97
	SCIENCE APPLICATIONS INTL CORP	Conn	NAVY	RDTE/Services-Engineering Development	159
		Mass	NAVY	RDTE/Services-Engineering Development	50
	CONTRACTOR TOTAL				209
	SEAWARD SERVICES INC	Florida	NAVY	RDTE/Services-Engineering Development	50
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Engineering Development	3,327
	SPEARS ASSOCIATES INC	Mass	NAVY	RDTE/Services-Engineering Development	82
	SPECTRA RESEARCH INC	Ohio	ARMY	RDTE/Services-Engineering Development	49
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Engineering Development	1,066
	STV GROUP INC	Penn	NAVY	RDTE/Services-Engineering Development	90
	SUPPORT SYSTEMS ASSOCIATES	Ohio	USAF	RDTE/Services-Engineering Development	123-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD24 (CONTINUED)

SYNETICS CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	\$	1,391
SYRACUSE UNIVERSITY	New York	NAVY	RDTE/Services-Engineering Development		40
SYSCON CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development		350
SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Services-Engineering Development		50
SYSTEMS ENGINEERING ASSOCIATES	Rhode Isld	NAVY	RDTE/Services-Engineering Development		60
TASC	Florida	USAF	RDTE/Services-Engineering Development		2,569
TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Services-Engineering Development		42-
TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Services-Engineering Development		36
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Engineering Development		833
TRACOR INC	Conn	NAVY	RDTE/Services-Engineering Development		50
TROY SYSTEMS INC	Ohio	USAF	RDTE/Services-Engineering Development		488
TRW INC	Conn	NAVY	RDTE/Services-Engineering Development		162
	Virginia	NAVY	RDTE/Services-Engineering Development		94
CONTRACTOR TOTAL					256
UNISYS CORPORATION	California	NAVY	RDTE/Services-Engineering Development		296
	Penn	NAVY	RDTE/Services-Engineering Development		488
CONTRACTOR TOTAL					783
VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development		1,106
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY	RDTE/Services-Engineering Development		50
VITRO CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development		165
	Penn	NAVY	RDTE/Services-Engineering Development		120
	Rhode Isld	NAVY	RDTE/Services-Engineering Development		35
CONTRACTOR TOTAL					320
WHITE H P LABORATORY INC	Maryland	ARMY	RDTE/Services-Engineering Development		173

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AD25	ADVANCE INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	103,976
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Operational Systems Developm	2,334
	AEPCO INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm	745
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	324
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	586
		Rhode Isl	NAVY	RDTE/Services-Operational Systems Developm	159
	CONTRACTOR TOTAL				60
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Services-Operational Systems Developm	219
	ARGOSYSTEMS INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm	172
	ARINC RESEARCH CORPORATION	California	USAF	RDTE/Services-Operational Systems Developm	100
	ATLANTIC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	9,208
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	798
	CONTRACTOR TOTAL				3,826
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	4,625
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	94
	BOOZ ALLEN & HAMILTON INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	147
	C A E INDUSTRIES LTD	New York	NAVY	RDTE/Services-Operational Systems Developm	100
	C CUBED CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	75
	COLEMAN RESEARCH CORPORATION	Florida	ARMY NAVY	RDTE/Services-Operational Systems Developm RDTE/Services-Operational Systems Developm	865 298 451
	STATE TOTAL				748
	COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	90
		Ohio	USAF	RDTE/Services-Operational Systems Developm	7,910
		Penn	NAVY	RDTE/Services-Operational Systems Developm	2,823

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AD25 (CONTINUED)

CONTRACTOR TOTAL					
COMPUTER SOFTWARE ANALYSTS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	\$	10,591
DEFENSE RESEARCH TECHNOLOGIES	Ohio	USAF	RDTE/Services-Operational Systems Developm		21,414
DELEX SYSTEMS INCORPORATED	Maryland	ARMY	RDTE/Services-Operational Systems Developm		126
E C CORPORATION OF OAK RIDGE	Virginia	NAVY	RDTE/Services-Operational Systems Developm		277
ELECTROSPACE SYSTEMS INC	Alabama	ARMY	RDTE/Services-Operational Systems Developm		170
F & M MANUFACTURING INC	Ohio	USAF	RDTE/Services-Operational Systems Developm		160
FORD H J ASSOCIATES INC	Maryland	ARMY	RDTE/Services-Operational Systems Developm		914
FRONTIER ENGINEERING INC	Ohio	USAF	RDTE/Services-Operational Systems Developm		256
	Ohio	USAF	RDTE/Services-Operational Systems Developm		554
	Oklahoma	USAF	RDTE/Services-Operational Systems Developm		348
	Conn	NAVY	RDTE/Services-Operational Systems Developm		171
	New Jersey	NAVY	RDTE/Services-Operational Systems Developm		519
		USAF	RDTE/Services-Operational Systems Developm		61
STATE TOTAL					3,671
					26-
					3,645
	Penn	NAVY	RDTE/Services-Operational Systems Developm		95
	Virginia	NAVY	RDTE/Services-Operational Systems Developm		43-
CONTRACTOR TOTAL					3,697
GENERAL OFFSHORE CORPORATION	Florida	NAVY	RDTE/Services-Operational Systems Developm		285
HUGHES STX CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm		321
IMS SERVICES INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		864
INTEGRATED MICROCOMPUTER SYS	Virginia	NAVY	RDTE/Services-Operational Systems Developm		690
INTEGRATED TEST & EVAL COOPERA	California	NAVY	RDTE/Services-Operational Systems Developm		405

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	INTERMETRICS INC	Penn	ARMY	RDTE/Services-Operational Systems Developm	4,312
	JOHNSON CONTROLS WORLD SERVICE	Florida	ARMY	RDTE/Services-Operational Systems Developm	101,913
		Marshall I	ARMY	RDTE/Services-Operational Systems Developm	18,015
	CONTRACTOR TOTAL				119,927
	KETRON INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	698
	KEYSTONE COMPUTER ASSOCIATES	Maryland	NAVY	RDTE/Services-Operational Systems Developm	37
		Penn	NAVY	RDTE/Services-Operational Systems Developm	344
	CONTRACTOR TOTAL				381
	KRUG INTERNATIONAL CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	416
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm	53
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Operational Systems Developm	37
	MODERN TECHNOLOGIES CORP	Ohio	ARMY USAF	RDTE/Services-Operational Systems Developm RDTE/Services-Operational Systems Developm	55 675
	STATE TOTAL				730
	N T L INC	Miss	NAVY	RDTE/Services-Operational Systems Developm	300
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	137
	CONTRACTOR TOTAL				437
	NATIONAL SYSTEMS & RES CO	Colorado	NAVY	RDTE/Services-Operational Systems Developm	537
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Operational Systems Developm	185
	OWL INTERNATIONAL INC	California	ARMY	RDTE/Services-Operational Systems Developm	819
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	201
	PARAMAX SYSTEMS CORP	Virginia	NAVY	RDTE/Services-Operational Systems Developm	801
	PLANNING CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	2,831
	PRC INC	Alabama	ARMY	RDTE/Services-Operational Systems Developm	355

AD25 (CONTINUED)

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AD25 (CONTINUED)							

	Virginia	ARMY NAVY	RDTE/Services-Operational Systems Developm RDTE/Services-Operational Systems Developm	\$	7,436 3,528
STATE TOTAL					10,964
CONTRACTOR TOTAL					11,320
PRC/ORI JV	Alabama	ARMY	RDTE/Services-Operational Systems Developm		67
	Virginia	ARMY	RDTE/Services-Operational Systems Developm		1,163
CONTRACTOR TOTAL					1,229
QUANTUM RESEARCH INTERNATIONAL	Alabama	ARMY	RDTE/Services-Operational Systems Developm		106
R J O ENTERPRISES INC	Maryland	USAF	RDTE/Services-Operational Systems Developm		226
	Ohio	USAF	RDTE/Services-Operational Systems Developm		401
CONTRACTOR TOTAL					627
RAYTHEON COMPANY	New York	USAF	RDTE/Services-Operational Systems Developm		268
RECON OPTICAL INC	Illinois	NAVY	RDTE/Services-Operational Systems Developm		1,010
RESEARCH MANAGEMENT CONS	California	NAVY	RDTE/Services-Operational Systems Developm		2,283
RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		42-
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Services-Operational Systems Developm		75
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Operational Systems Developm		4,155
SEAWARD SERVICES INC	Florida	NAVY	RDTE/Services-Operational Systems Developm		270
SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		1,225
SONALYSTS INC	Conn	NAVY	RDTE/Services-Operational Systems Developm		219
STEVENS INSTITUTE OF TECH	New Jersey	ARMY	RDTE/Services-Operational Systems Developm		247
STRATEGIC FINCL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm		581
SVERDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Services-Operational Systems Developm		4,327
SYNETICS CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm		150

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AD25 (CONTINUED)					
	SYSCON CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	168
	SYSTEMS ENGINEERING & MGT CO	Ohio	USAF	RDTE/Services-Operational Systems Developm	911
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Services-Operational Systems Developm	2,437
	TROY SYSTEMS INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	297
	TRW INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	366-
	TWIN CITY TECHNICAL CASTINGS	Minnesota	USAF	RDTE/Services-Operational Systems Developm	38-
	UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Operational Systems Developm	2,166
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	175
	CONTRACTOR TOTAL				2,341
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Services-Operational Systems Developm	348
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	505
	VITRO CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,220
	VSE CORPORATION	Virginia	ARMY	RDTE/Services-Operational Systems Developm	2,594
	ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	28
	R&D TOTAL				221,919
AD26	ADVANCED ENGINEERING & PLANNING	Maryland	NAVY	RDTE/Services-Management & Support	400
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Services-Management & Support	57
	AEGIS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Services-Management & Support	617
	AEPCO INC	Maryland	NAVY	RDTE/Services-Management & Support	450
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Management & Support	200
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Management & Support	32
	ANALYTIC SERVICES INC	Colorado	USAF	RDTE/Services-Management & Support	50
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	NAVY	RDTE/Services-Management & Support	402
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Services-Management & Support	167

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD26 (CONTINUED)					
	BRTRC INC	Virginia	ARMY	RDTE/Services-Management & Support	553
	CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Services-Management & Support	160
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Services-Management & Support	100
	COMPUTER SCIENCE APPLICATIONS	Florida	USAF	RDTE/Services-Management & Support	2,195
	CONCORD HILL GROUP INC	Mass	NAVY	RDTE/Services-Management & Support	493
	CRAFTSMEN CORP	New York	ARMY	RDTE/Services-Management & Support	68
	DEEGAN RESEARCH GROUP INC	Rhode Isld	NAVY	RDTE/Services-Management & Support	50
	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Management & Support	452
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Management & Support	7,129
	ELECTRONIC DECISIONS INC	Illinois	NAVY	RDTE/Services-Management & Support	47
	FOSTER MILLER INC	Mass	NAVY	RDTE/Services-Management & Support	52
	GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Services-Management & Support	6,041
		Marshall I	ARMY	RDTE/Services-Management & Support	17,959
	CONTRACTOR TOTAL				24,000
	GTE CORPORATION	California	ARMY	RDTE/Services-Management & Support	68
	GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Services-Management & Support	11,827
		Marshall I	ARMY	RDTE/Services-Management & Support	2,450
	CONTRACTOR TOTAL				14,277
	HAWKER PACIFIC INC	California	ARMY	RDTE/Services-Management & Support	126
	HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Services-Management & Support	2,399
	HUMAN RSRCS RES ORGANIZATION	Virginia	ARMY	RDTE/Services-Management & Support	34
	INTERFACE ENGINEERING	Conn	NAVY	RDTE/Services-Management & Support	49
	INTERMETRICS INC	Penn	ARMY	RDTE/Services-Management & Support	513
	INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Services-Management & Support	400

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AD26 (CONTINUED)					
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Services-Management & Support	50
	KELLY PERSONNEL SERVICES INC	PANAMA	ARMY	RDTE/Services-Management & Support	241
	LORAL VUGHT SYSTEMS	Texas	USAF	RDTE/Services-Management & Support	1,627
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Management & Support	75
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Services-Management & Support	1,322
	MISSION SCIENCES CORP	New York	NAVY	RDTE/Services-Management & Support	298
	NASA JOHNSON SPACE CENTER	Texas	NAVY	RDTE/Services-Management & Support	48
	NORTH DAKOTA STATE UNIV LIB	N Dakota	USAF	RDTE/Services-Management & Support	300
	NORTH DAKOTA STATE UNIVERSITY	N Dakota	USAF	RDTE/Services-Management & Support	190
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Management & Support	50
	R B C INCORPORATED	Virginia	NAVY	RDTE/Services-Management & Support	198
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Management & Support	304
	RIVERA NICHOLAS N	Virginia	NAVY	RDTE/Services-Management & Support	50
	SANDIA RESEARCH ASSOCIATES	New Mexico	NAVY	RDTE/Services-Management & Support	500
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Services-Management & Support	1,481
	SEAWARD SERVICES INC	Florida	NAVY	RDTE/Services-Management & Support	50
	SIPPICAN INC	Mass	NAVY	RDTE/Services-Management & Support	49
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Management & Support	50
	SONEX ENTERPRISES INC	Virginia	ARMY	RDTE/Services-Management & Support	41
	SRI INTERNATIONAL	California	ARMY	RDTE/Services-Management & Support	185
	SUNCOAST SCIENTIFIC INC	Florida	USAF	RDTE/Services-Management & Support	40
	SYSTEM RESOURCES CORPORATION	Mass	ARMY	RDTE/Services-Management & Support	57
	SYSTEMS ENGINEERING INTL	California	NAVY	RDTE/Services-Management & Support	498
	TASC	Ohio	USAF	RDTE/Services-Management & Support	7,701

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD26	(CONTINUED)				
	TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Services-Management & Support	\$ 1,021
	CONTRACTOR TOTAL	New Jersey	ARMY	RDTE/Services-Management & Support	1,065
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Services-Management & Support	2,087
	TEGLOTE RESEARCH INC	Ohio	USAF	RDTE/Services-Management & Support	100
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Services-Management & Support	2,151
	TRACOR APPLIED SCIENCES INC	Virginia	NAVY	RDTE/Services-Management & Support	35
	TRW INC	Virginia	NAVY	RDTE/Services-Management & Support	580
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Services-Management & Support	1,675
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Services-Management & Support	890
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Services-Management & Support	40
	WESTAR CORPORATION	New Mexico	ARMY	RDTE/Services-Management & Support	479
	XEMET INC	Conn	NAVY	RDTE/Services-Management & Support	1,676
	CONTRACTOR TOTAL	Washington	NAVY	RDTE/Services-Management & Support	50
R&D TOTAL					98
					148
					80,806
AD32	FOODCO CORPORATION	California	ARMY	RDTE/Subsistence-Exploratory Development	235
	UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Subsistence-Exploratory Development	176
	WASHINGTON STATE UNIVERSITY	Washington	ARMY	RDTE/Subsistence-Exploratory Development	318
R&D TOTAL					729
AD33	HERCULES INCORPORATED	W Virginia	NAVY	RDTE/Subsistence-Advanced Development	1,100
	SYSTEM PLANNING CORPORATION	California	NAVY	RDTE/Subsistence-Advanced Development	34
	TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	ARMY	RDTE/Subsistence-Advanced Development	172
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Subsistence-Advanced Development	77

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AD33 (CONTINUED)

UNITED STATES DEPT OF COMMERCE					NAVY	RDTE/Subsistence-Advanced Development	\$	120
R&D TOTAL								1,503
AD34	T CARROLL ASSOCIATES INC	Maryland	NAVY	RDTE/Subsistence-Engineering Development				30
VECTOR RESEARCH COMPANY INC					NAVY	RDTE/Subsistence-Engineering Development		30
R&D TOTAL								60
AD41	EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re				138
HLA ENGINEERS INC					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		92
MAINSTREAM ENGINEERING CORP					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		250
MOLECULAR TECHNOLOGIES INC					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		151
NORTH CAROLINA STATE UNIV					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		250
PHYSICAL OPTICS CORPORATION					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		130
PRINCETON UNIVERSITY					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		127
TECOGEN INC					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		150
TEST SYSTEMS INC					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		100
TINGLEY RUBBER CORPORATION					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		153
UNIVERSITY OF LOWELL					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		120
UNIVERSITY OF SOUTHERN CALIF					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		51
UNIVERSITY OF WASH ALMNI ASSN					ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re		1,710
R&D TOTAL								507
AD42	3M	Minnesota	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D				2,578
A A I CORPORATION					ARMY	RDTE/Textiles, Clothing, Equipage-Explor D		70
ALBANY INTERNATIONAL CORP					ARMY	RDTE/Textiles, Clothing, Equipage-Explor D		27
ALLIED SIGNAL INC					ARMY	RDTE/Textiles, Clothing, Equipage-Explor D		138
BIRDAIR STRUCTURES INC					ARMY	RDTE/Textiles, Clothing, Equipage-Explor D		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD42 (CONTINUED)					
	CHEMFAB CORPORATION	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	177
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	154
	ENVIRONMENTAL RES INST OF MICH	Michigan	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	600
	FEDERAL FABRICS	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	86
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Textiles, Clothing, Equipage-Explor D	150
	GENTEX CORPORATION	Penn	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	42
	HONEYWELL INC	Minnesota	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	1,743
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	528
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	92
	ILLUSION ENGINEERING INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	323
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	211
	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	166-
	OPTICAL COATING LABORATORY	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	276
	OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	145
	POLAROID CORPORATION	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	153
	ROCHESTER INST OF TECHNOLOGY	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	51
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	134
	SRI INTERNATIONAL	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	326
	TITAN CORPORATION	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	53
	UNIVERSITY OF DAYTON	Ohio	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	323
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	75
	WORCESTER POLYTECHNIC INSTITUT	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	100
	R&D TOTAL				8,896
	AD43 ASPEN SYSTEMS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	135

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AD43 (CONTINUED)					
	FTL ASSOCIATES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	84
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	3,460
	HOLOGRAPHIC OPTICS INC	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	169
	METRIC SYSTEMS CORPORATION	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	102
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	250
	RAPIDEX INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	38
	S-TRON	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	2,738
	SINHA SACH AND ASSOC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	77
	R&D TOTAL				7,053
AD44 AMERICAN TECHNOLOGY CORP					
	BALL CORPORATION	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	198
	GENTEX CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	73
		Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	120
		USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	2,527	
	STATE TOTAL				2,647
AD45 GUILD ASSOCIATES INC					
	ILC DOVER INC	Ohio	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	206
	INSTRON CORPORATION	Delaware	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	179
	MINE SAFETY APPLIANCES CO	Delaware	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	63
	MISSION RESEARCH CORPORATION	Penn	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	78
	NATIONAL DRAEGER INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	250
	RACAL HEALTH & SAFETY INC	Penn	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	123
	ROHM & HAAS COMPANY	Maryland	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	41
	S-TRON	Penn	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	106-
	STV GROUP INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	56-
		Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	2,010

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AD44	(CONTINUED)				
	TDA RESEARCH INC	Colorado	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	\$ 238
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	47
	R&D TOTAL				5,990
AD45	GEO CENTERS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Op Syste	3,695
	KETRON INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	240
	R&D TOTAL				3,935
AD46	ARCANUM CORPORATION	Michigan	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	50
	DAMASKOS INC	Penn	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	50
	ESKAY ASSOCIATES	Michigan	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	49
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	52
	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	50
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	56
	UTILITY DEVELOPMENT CORP	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	43
	R&D TOTAL				350
AD51	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	61
	CREARE INC	N.H.	USAF	RDTE/Fuels and Lubricants-Basic Research	49
	DESALINATION SYSTEMS INC	California	NAVY	RDTE/Fuels and Lubricants-Basic Research	49
	METROLOGIC INC	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	50
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	93
	SRI INTERNATIONAL	California	USAF	RDTE/Fuels and Lubricants-Basic Research	138
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	60
	R&D TOTAL				500
AD52	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	66
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	70

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R&D	CONTRACTOR NAME	ST, CNTRY	DEPT	R&D DESCRIPTION	\$
AD52 (CONTINUED)					
	ALLIED SIGNAL INC	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	50
	AMERICAN SUPERCONDUCTOR CORP	Mass	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	103
	CCS ASSOCIATES	Penn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	50
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	168
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	
	HOWARD UNIVERSITY	D.C	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	30
	LEACH CORPORATION	Califonia	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	240
	MARQUARDT COMPANY THE	Califonia	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	58-
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	198
	MECHANICAL TECHNOLOGY INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	372
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	623
	SPIRE CORPORATION	Mass	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	250
	UNITED TECHNOLOGIES CORP	Califonia	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	196
		Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	120
		Florida	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	365
	CONTRACTOR TOTAL				681
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	715
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,116
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	123
	YARDNEY TECHNICAL PRODUCTS	Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	552
	R&D TOTAL				5,349
	AD53 SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	2,417
	SPIRE CORPORATION	Mass	USAF	RDTE/Fuels and Lubricants-Advanced Develop	42
	WEDEVEN ASSOCIATES INC	Penn	NAVY	RDTE/Fuels and Lubricants-Advanced Develop	99

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
R&D TOTAL					2,558
AD56	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Fuels and Lubricants-Management & Sup	60
	MARCHEM	Texas	USAF	RDTE/Fuels and Lubricants-Management & Sup	60
R&D TOTAL					120
AD61	GEO SERVICES INC	Georgia	USAF	RDTE/Construction-Basic Research	150
	MCDONNELL DOUGLAS CORPORATION	Florida	ARMY	RDTE/Construction-Basic Research	1,275
R&D TOTAL					1,425
AD62	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Construction-Exploratory Development	200
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Construction-Exploratory Development	530
	LORAL CORP	Mass	ARMY	RDTE/Construction-Exploratory Development	26
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Construction-Exploratory Development	100
	SCIENCE APPLICATIONS INTL CORP	D.C.	NAVY	RDTE/Construction-Exploratory Development	3,350
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Construction-Exploratory Development	130
	TELEDYNE INDUSTRIES INC	Texas	ARMY	RDTE/Construction-Exploratory Development	1,393
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Construction-Exploratory Development	130
	VARIAN ASSOCIATES INC	California	NAVY	RDTE/Construction-Exploratory Development	300
R&D TOTAL					6,160
AD63	AEL DEFENSE CORP	Penn	NAVY	RDTE/Construction-Advanced Development	119
	BOLT BERANEK & NEWMAN INC	Rhode Isld	NAVY	RDTE/Construction-Advanced Development	33
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Construction-Advanced Development	35
	GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Construction-Advanced Development	67
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Construction-Advanced Development	183
	LAWRENCE LIVERMORE LABORATORY	California	USAF	RDTE/Construction-Advanced Development	280
	MIDWEST RESEARCH TECHNOLOGIES	Wisconsin	NAVY	RDTE/Construction-Advanced Development	50
	NORWEGIAN DEFENSE RESEARCH ES	NORWAY	NAVY	RDTE/Construction-Advanced Development	49

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AD63 (CONTINUED)					
	STATE UNIV OF NY AT ALBANY	New York	USAF	RDTE/Construction-Advanced Development	36
	SYRACUSE UNIVERSITY	New York	USAF	RDTE/Construction-Advanced Development	184
	THE CORE GROUP INC	New Mexico	USAF	RDTE/Construction-Advanced Development	120
	UNITED STATES DEPT OF COMMERCE	Colorado	USAF	RDTE/Construction-Advanced Development	150
	R&D TOTAL				1,307
AD64	DBA SYSTEMS INC	Florida	ARMY	RDTE/Construction-Engineering Development	6,534
	GOVERNMENT TECHNOLOGY SERVICES	Virginia	NAVY	RDTE/Construction-Engineering Development	179
	NAVSTAR SYSTEMS INC	California	ARMY	RDTE/Construction-Engineering Development	99
	TRACOR APPLIED SCIENCES INC	Maryland	NAVY	RDTE/Construction-Engineering Development	584
	TRACOR INC	Maryland	NAVY	RDTE/Construction-Engineering Development	50
	R&D TOTAL				7,446
AD65	COMPUTER SCIENCES CORPORATION	California	USAF	RDTE/Construction-Operational Systems Deve	1,783
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Construction-Operational Systems Deve	320
	INTERMETRICS INC	Penn	NAVY	RDTE/Construction-Operational Systems Deve	245
	PRC INC	Alabama	ARMY	RDTE/Construction-Operational Systems Deve	167
	PRC/ORI JV	Alabama	ARMY	RDTE/Construction-Operational Systems Deve	510
	ROCKWELL INTERNATIONAL CORP	Georgia	ARMY	RDTE/Construction-Operational Systems Deve	750
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Operational Systems Deve	1,028
	R&D TOTAL				4,804
AD66	BIOLOGICAL COMPONENTS CORP	California	NAVY	RDTE/Construction-Management & Support	50
	J K RESEARCH	Montana	NAVY	RDTE/Construction-Management & Support	50
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Management & Support	132
	R&D TOTAL				232
AD91 3M		Minnesota	NAVY	RDTE/Other Defense-Basic Research	707

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	394
	ABTECH CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	298
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Basic Research	50
	ADAPTIVE SOFTWARE INC	Ohio	NAVY	RDTE/Other Defense-Basic Research	49
	ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Basic Research	66
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Basic Research	158
	ADVANCED RES & APPLICATIONS	California	NAVY	RDTE/Other Defense-Basic Research	49
	ADVANCED SCIENTIFIC CONCEPTS	California	NAVY	RDTE/Other Defense-Basic Research	50
	ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other Defense-Basic Research	171
	AERODYNE RESEARCH INC	Maine	NAVY	RDTE/Other Defense-Basic Research	137
	AERONIX INC	Florida	NAVY	RDTE/Other Defense-Basic Research	1,906
	ALFAB INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	96
	ALLIANT TECHSYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	1,132
	ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	100
		D.C.	NAVY	RDTE/Other Defense-Basic Research	973
		Maryland	NAVY	RDTE/Other Defense-Basic Research	7,065
	CONTRACTOR TOTAL				8,137
	ALLIED SIGNAL INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	554
	ALPHATECH INC	Mass	NAVY	RDTE/Other Defense-Basic Research	49
	ALUMINUM COMPANY OF AMERICA	Penn	NAVY	RDTE/Other Defense-Basic Research	150
	AMERICAN INST BIOLOGCL SCIENCE	D.C.	NAVY	RDTE/Other Defense-Basic Research	45
	AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Defense-Basic Research	50
	AMERICAN SUPERCONDUCTOR CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	600
	AMERICAN TELEPHONE & TELG CO	New Jersey	ARMY	RDTE/Other Defense-Basic Research	2,024

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

	CONTRACTOR TOTAL				
AMHERST SYSTEMS INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research	\$	78
AMRON CORPORATION	N Carolina	NAVY	RDTE/Other Defense-Basic Research		20,704
ANACAPA SCIENCES INC	New York	NAVY	RDTE/Other Defense-Basic Research		22,806
ANALYSIS & TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		325
ANALYTICAL METHODS INC	California	ARMY	RDTE/Other Defense-Basic Research		57
ANALYTIX ELECTRONIC SYSTEMS	Miss	NAVY	RDTE/Other Defense-Basic Research		125
ANRO ENGINEERING INC	Washington	NAVY	RDTE/Other Defense-Basic Research		90
	N.H.	NAVY	RDTE/Other Defense-Basic Research		433
	Mass	ARMY	RDTE/Other Defense-Basic Research		3,988
		NAVY	RDTE/Other Defense-Basic Research		53
	STATE TOTAL				48
					100
APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Other Defense-Basic Research		300
APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Other Defense-Basic Research		65
APPLIED RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		245
APPLIED RESEARCH LABORATORY	Virginia	NAVY	RDTE/Other Defense-Basic Research		70
ARCO POWER TECHNOLOGIES INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		31,773
ARETE ASSOCIATES	California	ARMY	RDTE/Other Defense-Basic Research		174
		NAVY	RDTE/Other Defense-Basic Research		1,727
	STATE TOTAL				1,900
ARETE' ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research		200
ARKANSAS UNIVERSITY OF	Arkansas	ARMY	RDTE/Other Defense-Basic Research		250
ARTEP INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		100
ASSOCIATED UNIVERSITIES INC	New York	NAVY	RDTE/Other Defense-Basic Research		168
ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research		29,523

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	ASTRON CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	59
	ASTRONAUTICS CORP OF AMERICA	Wisconsin	USAF	RDTE/Other Defense-Basic Research	120
	ASTROPOWER INC	Delaware	NAVY	RDTE/Other Defense-Basic Research	50
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research	38
	AURA SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	410
	AVCO CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	73
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	53
	B-K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	495
	B-K SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	289
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	349
	BALLENA SYSTEMS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	30
	BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	178
	BATTELLE MEMORIAL INSTITUTE	Washington	NAVY	RDTE/Other Defense-Basic Research	100
	BDM INTERNATIONAL INC	Virginia	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	2,610 99
			STATE TOTAL		2,710
	BDM MANAGEMENT SERVICES CO	California	NAVY	RDTE/Other Defense-Basic Research	60
		Virginia	NAVY	RDTE/Other Defense-Basic Research	144
	CONTRACTOR TOTAL				204
	BELL COMMUNICATIONS RESEARCH	New Jersey	NAVY	RDTE/Other Defense-Basic Research	557
	BENDIX FIELD ENGINEERING CORP	D.C.	NAVY	RDTE/Other Defense-Basic Research	428
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	35
	BIOINDUSTRIAL TECHNOLOGIES	Texas	NAVY	RDTE/Other Defense-Basic Research	50
	BIOTRONICS TECHNOLOGIES INC	Wisconsin	NAVY	RDTE/Other Defense-Basic Research	258

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

BKM BUSINESS DEVELOPMENT CORP	California	NAVY	RDTE/Other Defense-Basic Research	\$	47
BLACK & DECKER CORPORATION	D.C.	NAVY	RDTE/Other Defense-Basic Research		135
	Virginia	ARMY	RDTE/Other Defense-Basic Research		150
CONTRACTOR TOTAL					285
BOEING AEROSPACE OPERATIONS	Alabama	ARMY	RDTE/Other Defense-Basic Research		1,252
	Washington	USAF	RDTE/Other Defense-Basic Research		5,271
CONTRACTOR TOTAL					6,522
BOEING COMPANY THE	Washington	NAVY	RDTE/Other Defense-Basic Research		93
BOEING ELECTRONICS INC	Washington	NAVY	RDTE/Other Defense-Basic Research		75
BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Defense-Basic Research		1,819
		NAVY	RDTE/Other Defense-Basic Research		2,332
		USAF	RDTE/Other Defense-Basic Research		900
STATE TOTAL					5,052
BOOZ ALLEN & HAMILTON INC	California	NAVY	RDTE/Other Defense-Basic Research		140
	Maryland	ARMY	RDTE/Other Defense-Basic Research		1,031
		NAVY	RDTE/Other Defense-Basic Research		100
STATE TOTAL					1,131
	Virginia	NAVY	RDTE/Other Defense-Basic Research		50
CONTRACTOR TOTAL					1,321
C A E INDUSTRIES LTD	Texas	ARMY	RDTE/Other Defense-Basic Research		89
CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Other Defense-Basic Research		100
CALIFORNIA RESEARCH & TECH	California	NAVY	RDTE/Other Defense-Basic Research		99
CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Basic Research		297
CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Other Defense-Basic Research		89
CAMBRIDGE HYDRC DYNAMICS INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research		389

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Defense-Basic Research		750-
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Basic Research		643
		NAVY	RDTE/Other Defense-Basic Research		200
					843
CAROLINIAN SYSTEMS RES CORP	N Carolina	NAVY	RDTE/Other Defense-Basic Research		56
CASE WESTERN RESERVE UNIV	Ohio	USAF	RDTE/Other Defense-Basic Research		400
CASTLE TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research		314
CERAMICS PROCESS SYSTEMS CORP	Mass	NAVY	RDTE/Other Defense-Basic Research		205
CHEMETEK	Oregon	ARMY	RDTE/Other Defense-Basic Research		160
CHIRP CORP	California	NAVY	RDTE/Other Defense-Basic Research		72
CIMFLEX TEKKNOWLEDGE CORP	California	NAVY	RDTE/Other Defense-Basic Research		495
CLARKSON UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research		93
COGNITECH INC	California	NAVY	RDTE/Other Defense-Basic Research		90
COHERENT INC	Mass	NAVY	RDTE/Other Defense-Basic Research		95
COLSA INC	Alabama	ARMY	RDTE/Other Defense-Basic Research		349
COMPUTATIONAL LOGIC INC	Texas	NAVY	RDTE/Other Defense-Basic Research		95
COMPUTATIONAL PHYSICS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		1,001
	Virginia	NAVY	RDTE/Other Defense-Basic Research		130
					1,131
CONTRACTOR TOTAL					246
COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Other Defense-Basic Research		48
COMPUTER SCIENCES CORPORATION	Florida	USAF	RDTE/Other Defense-Basic Research		200
CONDUCTUS INC	California	NAVY	RDTE/Other Defense-Basic Research		70
CONTINUUM ELECTRO-OPTICS INC	California	NAVY	RDTE/Other Defense-Basic Research		90
COORDINATING RESEARCH COUNCIL	Georgia	ARMY	RDTE/Other Defense-Basic Research		

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AD91 (CONTINUED)					
	CORDEC CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	100
	CORNELL UNIVERSITY	New York	USAF	RDTE/Other Defense-Basic Research	150
	CORNING INC	New York	NAVY	RDTE/Other Defense-Basic Research	482
	CORTIST LABORATORIES INC	Texas	NAVY	RDTE/Other Defense-Basic Research	90
	CORTICON	Penn	NAVY	RDTE/Other Defense-Basic Research	45
	CREE RESEARCH INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research	700
	CRYOLIFE INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	60
	CRYOPHARM CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	328
	CRYSTAL ASSOCIATES INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	650
	CS EXHIBITS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	71
	DAMASKOS INC	Penn	ARMY	RDTE/Other Defense-Basic Research	141
	DATA FUSION CORP	Colorado	NAVY	RDTE/Other Defense-Basic Research	49
	DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Other Defense-Basic Research	350
			USAF	RDTE/Other Defense-Basic Research	60
			STATE TOTAL		410
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	205
	DEFENSE DIAMOND DEVELOPMENT CO	Virginia	NAVY	RDTE/Other Defense-Basic Research	4,077
	DEFENSE GROUP INC	California	NAVY	RDTE/Other Defense-Basic Research	386
	DELFIN SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	287
	DREXEL UNIVERSITY	Penn	USAF	RDTE/Other Defense-Basic Research	72
	DU PONT E I DE NEMOURS & CO	Delaware	NAVY	RDTE/Other Defense-Basic Research	195
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Basic Research	2,617
	DYNAFLOW INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	215
	DYNAMIC SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	483

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DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other	Defense-Basic	Research	30
E-SYSTEMS INC	Virginia	USAF	RDTE/Other	Defense-Basic	Research	5,628
EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other	Defense-Basic	Research	272
ECON INC	California	USAF	RDTE/Other	Defense-Basic	Research	293
EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other	Defense-Basic	Research	581
ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Other	Defense-Basic	Research	48
ELECTRO-OPTEK CORPORATION	California	NAVY USAF	RDTE/Other RDTE/Other	Defense-Basic Defense-Basic	Research Research	50 525
	STATE TOTAL					575
ELECTRONIC COMPONENT SALES	Maryland	NAVY	RDTE/Other	Defense-Basic	Research	616
ELECTRONIC DECISIONS INC	Illinois	NAVY	RDTE/Other	Defense-Basic	Research	250
ELMORE ASSOCIATES	California	ARMY	RDTE/Other	Defense-Basic	Research	50
EMCORE CORPORATION	New Jersey	NAVY	RDTE/Other	Defense-Basic	Research	50
ENGINEERING GEOMETRY SYSTEMS	Utah	NAVY	RDTE/Other	Defense-Basic	Research	50
ENSIGN-BICKFORD INDUSTRIES	Conn	NAVY	RDTE/Other	Defense-Basic	Research	139
ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other	Defense-Basic	Research	827
EPION CORPORATION	Mass	NAVY	RDTE/Other	Defense-Basic	Research	125
ETREMA PRODUCTS INC	Iowa	NAVY	RDTE/Other	Defense-Basic	Research	249
FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other	Defense-Basic	Research	405
FAIRCHILD SPACE & DEF CORP	Maryland	NAVY	RDTE/Other	Defense-Basic	Research	194
FAIRFAX MATERIALS RESEARCH	Virginia	NAVY	RDTE/Other	Defense-Basic	Research	180
FATIGUE TECHNOLOGY INC	Washington	NAVY	RDTE/Other	Defense-Basic	Research	50-
FEDERAL ELECTRO OPTICS INC	Tennessee	NAVY	RDTE/Other	Defense-Basic	Research	55
FEDERATION OF AMER SOC FOR EXP	Maryland	NAVY	RDTE/Other	Defense-Basic	Research	424

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AD9: (CONTINUED)					
	FERRANTI INSTRUMENTATION LTD	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research	190
	FIBERTEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	50
	FLORIDA INST OF TECHNOLOGY	Florida	USAF	RDTE/Other Defense-Basic Research	50
	FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Basic Research	40
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Other Defense-Basic Research	99
	FMC CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Basic Research	2,890
	FORMA CORPORATION	Ohio	NAVY	RDTE/Other Defense-Basic Research	50
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Basic Research	175
			NAVY	RDTE/Other Defense-Basic Research	647
			USAF	RDTE/Other Defense-Basic Research	58
		STATE TOTAL			880
	FRIED D L ASSOCIATES INC	California	NAVY	RDTE/Other Defense-Basic Research	165
	FRONTIER ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Basic Research	176
	GEC AVIONICS LTD	D.C.	NAVY	RDTE/Other Defense-Basic Research	100
	GEC MARCONI CO LTD	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research	1,835
	GENERAL ATOMICS	California	NAVY	RDTE/Other Defense-Basic Research	2,063
	GENERAL DYNAMICS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	200
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	447
		New York	NAVY	RDTE/Other Defense-Basic Research	3,916
	CONTRACTOR TOTAL				4,363
	GENERAL HOSPITAL CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	4,500
	GENERAL MOTORS CORPORATION	Michigan	NAVY	RDTE/Other Defense-Basic Research	44
	GEO CENTERS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	2,183
		Mass	NAVY	RDTE/Other Defense-Basic Research	4,543
	CONTRACTOR TOTAL				6,727

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AD91 (CONTINUED)					
	GEO-CENTERS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	\$ 270
		Mass	NAVY	RDTE/Other Defense-Basic Research	112
	CONTRACTOR TOTAL				382
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Basic Research	185
	GEORGE WASHINGTON UNIV THE	D.C.	NAVY	RDTE/Other Defense-Basic Research	198
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	NAVY	RDTE/Other Defense-Basic Research	3,675
	GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Other Defense-Basic Research	190
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Basic Research	540
	GRC INTERNATIONAL INC	California	NAVY	RDTE/Other Defense-Basic Research	75
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Defense-Basic Research	552
	GRUMMAN DATA SYSTEMS CORP	California	NAVY	RDTE/Other Defense-Basic Research	200
	GTE CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	155
	GULTON INDUSTRIES INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research	455
	HARRIS CORPORATION	Florida	NAVY	RDTE/Other Defense-Basic Research	2,255
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	124
	HEALTH RESEARCH INC	New York	NAVY	RDTE/Other Defense-Basic Research	140
	HEWLETT-PACKARD COMPANY	Maryland	NAVY	RDTE/Other Defense-Basic Research	525
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Other Defense-Basic Research	242
	HONEYWELL INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	1,320
			USAF	RDTE/Other Defense-Basic Research	57
	STATE TOTAL				1,377
	HORRIGAN ANALYTICS	Illinois	NAVY	RDTE/Other Defense-Basic Research	631
	HOUSTON ADVANCED RESEARCH CTR	Texas	NAVY	RDTE/Other Defense-Basic Research	143
	HRB SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Basic Research	40
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Defense-Basic Research	6,200

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

			NAVY	RDTE/Other Defense-Basic Research	\$ 812
			USAF	RDTE/Other Defense-Basic Research	412
	STATE TOTAL				7,424
HUGHES ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		2,016
HURD HARRY L ASSOCIATES INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research		206
HYDRO PRODUCTS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		127
HYPRES INC	New York	NAVY	RDTE/Other Defense-Basic Research		729
I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Basic Research		87
ICECASTING INC	Washington	NAVY	RDTE/Other Defense-Basic Research		60
ICET INC	Mass	NAVY	RDTE/Other Defense-Basic Research		53
IDR	D.C.	NAVY	RDTE/Other Defense-Basic Research		35
INFORMATION PLANNING ASSOC	Virginia	NAVY	RDTE/Other Defense-Basic Research		40
INFORMATION SYSTEMS TECHNOLOGY	Illinois	ARMY	RDTE/Other Defense-Basic Research		100
INNOVATIVE CONCEPTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		1,327
INTEGRATED SYSTEM ASSEMBLIES	Mass	NAVY	RDTE/Other Defense-Basic Research		196
INTELLIGENT AUTOMATION INC	Maryland	USAF	RDTE/Other Defense-Basic Research		49
INTERDISCIPLINARY SCIENCE APPL	Maryland	NAVY	RDTE/Other Defense-Basic Research		59
INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		750
	Virginia	NAVY	RDTE/Other Defense-Basic Research		286
CONTRACTOR TOTAL					1,036
INTERNATIONAL BUS MCHS CORP	California	NAVY	RDTE/Other Defense-Basic Research		432
	New York	NAVY	RDTE/Other Defense-Basic Research		1,156
	Virginia	NAVY	RDTE/Other Defense-Basic Research		54
CONTRACTOR TOTAL					1,642
INTERNATIONAL FUEL CELLS CORP	Conn	NAVY	RDTE/Other Defense-Basic Research		796

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AD91 (CONTINUED)					
	INTERSPEC INC	Penn	NAVY	RDTE/Other Defense-Basic Research	45
	IONWERKS	Texas	NAVY	RDTE/Other Defense-Basic Research	49
	IOWA STATE UNIV SCNC	Iowa	NAVY	RDTE/Other Defense-Basic Research	30
	JADE SIMULATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	315
	JAYCOR	Virginia	NAVY	RDTE/Other Defense-Basic Research	767
	JBS TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Basic Research	427
	JET PROCESS CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research	100
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Basic Research	1,102
	JORTNER RESEARCH & ENGRG	California	NAVY	RDTE/Other Defense-Basic Research	90
	KENT STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	150
	KENTUCKY MEDICAL RES DEVELOP	Kentucky	NAVY	RDTE/Other Defense-Basic Research	349
	KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	50
	KINZUID INC	New York	NAVY	RDTE/Other Defense-Basic Research	279
	KM SCIENCES	California	NAVY	RDTE/Other Defense-Basic Research	123
	KOPIN CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	150
	KOR ELECTRONICS	California	NAVY	RDTE/Other Defense-Basic Research	100
	LASERTRON INC	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	LAWRENCE ASSOCIATES INC	Ohio	USAF	RDTE/Other Defense-Basic Research	40
	LAWRENCE LIVERMORE LABORATORY	California	NAVY	RDTE/Other Defense-Basic Research	70
	LINARES MANAGEMENT ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research	265
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Defense-Basic Research	1,106
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	187
	CONTRACTOR TOTAL				1,273
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	1,385

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AD91 (CONTINUED)

LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Other Defense-Basic Research	\$	3,365
	D.C.	NAVY	RDTE/Other Defense-Basic Research		1,018
	Penn	NAVY	RDTE/Other Defense-Basic Research		1,702
CONTRACTOR TOTAL					2,720
LORAL CORP	California	NAVY	RDTE/Other Defense-Basic Research		260
		USAF	RDTE/Other Defense-Basic Research		125
	STATE TOTAL				385
	Mass	ARMY	RDTE/Other Defense-Basic Research		6,448
		NAVY	RDTE/Other Defense-Basic Research		340
	STATE TOTAL				8,788
CONTRACTOR TOTAL					7,173
LOWELL OBSERVATORY	Arizona	NAVY	RDTE/Other Defense-Basic Research		550
	California	NAVY	RDTE/Other Defense-Basic Research		50
	Mass	NAVY	RDTE/Other Defense-Basic Research		754
M M R TECHNOLOGIES INC	Ohio	USAF	RDTE/Other Defense-Basic Research		3,462
	Virginia	NAVY	RDTE/Other Defense-Basic Research		50
	Florida	ARMY	RDTE/Other Defense-Basic Research		50
M/A-COM INC	Vermont	NAVY	RDTE/Other Defense-Basic Research		55
	Colorado	NAVY	RDTE/Other Defense-Basic Research		45
		USAF	RDTE/Other Defense-Basic Research		410
CONTRACTOR TOTAL					455
MAC AULAY BROWN INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		1,630
					2,086
	CONTRACTOR TOTAL				44-
MAGNAVOX GOVT & INDSTR ELCTR	Maryland	NAVY	RDTE/Other Defense-Basic Research		293
	CONTRACTOR TOTAL				
MAINSTREAM ENGINEERING CO INC	Mass	ARMY	RDTE/Other Defense-Basic Research		
	CONTRACTOR TOTAL				
MARINE RESEARCH CORP					
	CONTRACTOR TOTAL				
MARTIN MARIETTA CORPORATION					
	CONTRACTOR TOTAL				

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AD91 (CONTINUED)

		NAVY	RDTE/Other	Defense-Basic	Research	\$
STATE TOTAL						
MATERIALS SYSTEMS INC	Mass	NAVY	RDTE/Other	Defense-Basic	Research	15
MAXIM TECHNOLOGIES INC	California	NAVY	RDTE/Other	Defense-Basic	Research	443
MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other	Defense-Basic	Research	398
	Missouri	USAF	RDTE/Other	Defense-Basic	Research	71
						249
						50
						299
						97
MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Other	Defense-Basic	Research	153
MCPHEE RESEARCH CO	Washington	NAVY	RDTE/Other	Defense-Basic	Research	120
MEMRY CORPORATION	Conn	NAVY	RDTE/Other	Defense-Basic	Research	230
MESA INC	D.C.	NAVY	RDTE/Other	Defense-Basic	Research	49
METRATEK INC	Virginia	NAVY	RDTE/Other	Defense-Basic	Research	62
MICHIGAN TCHNLGAL UNIVERSITY	Michigan	ARMY	RDTE/Other	Defense-Basic	Research	600
MICROELECTRONICS CMPT TECH CORP	Texas	NAVY	RDTE/Other	Defense-Basic	Research	9,000
MICRON TECHNOLOGIES INC	Idaho	ARMY	RDTE/Other	Defense-Basic	Research	50
MICROWAVE DEVICES AND SYSTEMS	California	NAVY	RDTE/Other	Defense-Basic	Research	100
MIDWEST RESEARCH INSTITUTE	Missouri	USAF	RDTE/Other	Defense-Basic	Research	50
	Tennessee	USAF	RDTE/Other	Defense-Basic	Research	150
						166
						418
						583
						3,144
						100
						343
CONTRACTOR TOTAL						
MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other	Defense-Basic	Research	
		USAF	RDTE/Other	Defense-Basic	Research	
STATE TOTAL						
MITRE CORPORATION	Virginia	ARMY	RDTE/Other	Defense-Basic	Research	
MNEMONICS INC	Florida	NAVY	RDTE/Other	Defense-Basic	Research	
MOLECULAR DEVICES CORPORATION	California	NAVY	RDTE/Other	Defense-Basic	Research	

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AD91 (CONTINUED)					
	MONTANA STATE UNIVERSITY	Montana	NAVY	RDTE/Other Defense-Basic Research	74
	MONTEREY INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	35
	MRJ INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	339
	MULTILAYER OPTICS & X-RAY TECH	Utah	NAVY	RDTE/Other Defense-Basic Research	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Basic Research	142
	NATIONAL CAPITOL SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	55
	NATIONAL INSTITUTE OF NEUROLOG	Maryland	NAVY	RDTE/Other Defense-Basic Research	137
	NATIONAL SCIENCE FOUNDATION	D.C.	NAVY	RDTE/Other Defense-Basic Research	1,764
	NESTOR INC	Rhode Islnd	NAVY	RDTE/Other Defense-Basic Research	150
	NETROLOGIC INC	California	NAVY	RDTE/Other Defense-Basic Research	205
	NEUROGEN LABS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	378
	NEW JERSEY INSTITUTE OF TECH	New Jersey	NAVY	RDTE/Other Defense-Basic Research	75
	NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Basic Research	120
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Basic Research	559
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Basic Research	230
	NONVOLATILE ELECTRONICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50
	NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Other Defense-Basic Research	91
	NORTH AMERICAN PHILIPS CORP	Georgia	NAVY	RDTE/Other Defense-Basic Research	274
	NORTHEAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Other Defense-Basic Research	167
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	539
		Illinois	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	531 95
	CONTRACTOR TOTAL	STATE TOTAL			626
					1,164

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AD91 (CONTINUED)					
	NORTHWEST RESEARCH ASSOC JV	Washington	NAVY	RDTE/Other Defense-Basic Research	\$ 243
	NORTON COMPANY	Mass	NAVY	RDTE/Other Defense-Basic Research	249
	OGDEN CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	200
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	198
			USAF	RDTE/Other Defense-Basic Research	137
	STATE TOTAL				334
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Basic Research	283
	OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	170
			USAF	RDTE/Other Defense-Basic Research	80
	STATE TOTAL				250
	OMEGA P INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	575
	OMNET INC	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	OPTICOMP CORPORATION	Nevada	NAVY	RDTE/Other Defense-Basic Research	413
	ORBITAL SCIENCES CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	4,154
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	50
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Defense-Basic Research	753
	PARAMAX SYSTEMS CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research	125
	PARASOFT CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	312
	PARKER HANNIFIN CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	324
	PENNSYLVANIA STATE UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	114
			USAF	RDTE/Other Defense-Basic Research	33
	STATE TOTAL				147
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	150
	PHOTONIC SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Basic Research	740
	PHOTONICS CORP	New York	NAVY	RDTE/Other Defense-Basic Research	143
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	190

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AD91	(CONTINUED)				

PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	\$	300
		USAF	RDTE/Other Defense-Basic Research		124
	STATE TOTAL				424
PHYSICS INTERNATIONAL COMPANY	Mass	NAVY	RDTE/Other Defense-Basic Research		241
PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Other Defense-Basic Research		42
	Virginia	NAVY	RDTE/Other Defense-Basic Research		2,555
	CONTRACTOR TOTAL				2,597
POTOMAC RESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Basic Research		100
PRAXIS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		251
PRC INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		1,219
PRECISION COMBUSTION INC	Conn	USAF	RDTE/Other Defense-Basic Research		105
PRINCETON SCIENTIFIC INSTRS	New Jersey	NAVY	RDTE/Other Defense-Basic Research		125
PROMEGA CORPORATION	Wisconsin	NAVY	RDTE/Other Defense-Basic Research		100
PROTEAN INSTRUMENTS	Tennessee	ARMY	RDTE/Other Defense-Basic Research		32
QUADRA ENGINEERING INC	Mass	NAVY	RDTE/Other Defense-Basic Research		181
QUANTUM RESEARCH INTERNATIONAL	Alabama	ARMY	RDTE/Other Defense-Basic Research		70
QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		937
QUICK REACTION CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research		600
R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research		298
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		1,776
RAND CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research		7,845
RANDLE INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		49
RAVEN INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		300
RAYTHEON COMPANY	California	NAVY	RDTE/Other Defense-Basic Research		100

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AD91 (CONTINUED)

SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Basic Research		101
SCHWARTZ ELECTRO-OPTICS INC	Mass	NAVY	RDTE/Other Defense-Basic Research		60
SCI TEC INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research		103
SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Other Defense-Basic Research		100
SCIENCE & TECHNOLOGY CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research		1,509
SCIENCE AND TECH RESEARCH INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		125
SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Defense-Basic Research		373
		NAVY	RDTE/Other Defense-Basic Research		2,725
		USAF	RDTE/Other Defense-Basic Research		201
STATE TOTAL					3,299
	D.C.	NAVY	RDTE/Other Defense-Basic Research		83
	Maryland	NAVY	RDTE/Other Defense-Basic Research		158
	Virginia	ARMY	RDTE/Other Defense-Basic Research		166
		NAVY	RDTE/Other Defense-Basic Research		2,959
STATE TOTAL					3,125
	Washington	NAVY	RDTE/Other Defense-Basic Research		386
					7,057
CONTRACTOR TOTAL					540
SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research		118
SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Other Defense-Basic Research		250
SEA TECH INC	Oregon	NAVY	RDTE/Other Defense-Basic Research		149
SENSCI CORP	Virginia	ARMY	RDTE/Other Defense-Basic Research		50
SENSORS UNLIMITED INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research		729
SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Basic Research		115
SOMATOGEN	Colorado	NAVY	RDTE/Other Defense-Basic Research		270
SONA' STS INC	Conn	NAVY	RDTE/Other Defense-Basic Research		

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AD91 (CONTINUED)

SONOQUEST ADVANCED	Mass	NAVY	RDTE/Other Defense-Basic Research	\$	119
SOUTH CAROLINA RESCH AUTHORITY	S Carolina	NAVY	RDTE/Other Defense-Basic Research		68,630
SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Basic Research		404
	Ohio	USAF	RDTE/Other Defense-Basic Research		403
CONTRACTOR TOTAL					808
SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Basic Research		422
SOUTHWESTERN OH CNCL	Ohio	USAF	RDTE/Other Defense-Basic Research		35
SPACE APPLICATIONS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		99
	Maryland	NAVY	RDTE/Other Defense-Basic Research		180
	Mass	NAVY	RDTE/Other Defense-Basic Research		245
CONTRACTOR TOTAL					524
SPACE COMPUTER CORP	California	NAVY	RDTE/Other Defense-Basic Research		75
SPARTA INC	California	NAVY	RDTE/Other Defense-Basic Research		49
SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Other Defense-Basic Research		85
SPIRE CORPORATION	Mass	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		488 95
STATE TOTAL					583
SRI INTERNATIONAL	California	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		9,817 5,031
STATE TOTAL					14,847
	Virginia	ARMY	RDTE/Other Defense-Basic Research		2,498
CONTRACTOR TOTAL					17,346
ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Other Defense-Basic Research		190
STANDARD TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		112
STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Basic Research		6,213

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AD91 (CONTINUED)					
			USAF	RDTE/Other Defense-Basic Research	\$ 90
	STATE TOTAL				6,303
	STATISTICAL SCIENCES INC	Washington	NAVY	RDTE/Other Defense-Basic Research	102
	STEVENS INSTITUTE OF TECH	New Jersey	NAVY	RDTE/Other Defense-Basic Research	100
	STOTTLER HENKE ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	50
	STRATEGIC ANALYSIS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	914
	SUMMATION LTD.	Ohio	USAF	RDTE/Other Defense-Basic Research	41
	SUMMATION RESEARCH INC	Florida	NAVY	RDTE/Other Defense-Basic Research	924
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Basic Research	600
	SURFACE OPTICS CORP	California	USAF	RDTE/Other Defense-Basic Research	51
	SWALES & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	335
	SWALES AND ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	1,350
	SYMBIOTICS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	49
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Basic Research	640
	SYSTEMS & ELECTRONICS INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	8,260
	SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other Defense-Basic Research	50
	SYSTEMS & TECHNOLOGY RESEARCH	Virginia	USAF	RDTE/Other Defense-Basic Research	300
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Defense-Basic Research	10,709
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Basic Research	3,076
	SYSTEMS SUPPORT INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	50
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Basic Research	1,076
	T S C INC	California	NAVY	RDTE/Other Defense-Basic Research	75
	T S I MASON RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research	74
	TASC	Mass	USAF	RDTE/Other Defense-Basic Research	401

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AD91 (CONTINUED)

TECHNICAL RESEARCH ASSOCIATES	Utah	NAVY	RDTE/Other Defense-Basic Research		38
TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		359
TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Other Defense-Basic Research		150
TECHNOLOGY INTERNATIONAL INC	Louisiana	USAF	RDTE/Other Defense-Basic Research		50
TECHNOLOGY U S A INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Basic Research		33
TEKTRONIX INC	Oregon	NAVY	RDTE/Other Defense-Basic Research		119
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research		1,122
TETRA TECH DATA SYSTEMS INC	California	NAVY	RDTE/Other Defense-Basic Research		102
TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Other Defense-Easic Research		635
THE WESTIN HOTEL	Washington	NAVY	RDTE/Other Defense-Basic Research		58
THERMOTREX CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		221
		USAF	RDTE/Other Defense-Basic Research		658
			STATE TOTAL		879
THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research		141
THIOLKOL CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		100
	Utah	NAVY	RDTE/Other Defense-Basic Research		144
CONTRACTOR TOTAL					245
TINI ALLOY CO	California	NAVY	RDTE/Other Defense-Basic Research		88
TINI ALLOY COMPANY	California	NAVY	RDTE/Other Defense-Basic Research		36
TOMCO SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		403
TOOMAY MATHIS & ASSOCIATES	Montana	NAVY	RDTE/Other Defense-Basic Research		88
TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Basic Research		100
TRACOR INC	Texas	NAVY	RDTE/Other Defense-Basic Research		267
TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Basic Research		567

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AD91 (CONTINUED)

TRIVETT DAVID H INC	Florida	NAVY	RDTE/Other Defense-Basic Research	\$	46
TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Basic Research		375
TRUSTEES COLUMBIA UNIV	New York	NAVY	RDTE/Other Defense-Basic Research		149
		USAF	RDTE/Other Defense-Basic Research		70
	STATE TOTAL				219
TRW INC	California	ARMY	RDTE/Other Defense-Basic Research		620
		NAVY	RDTE/Other Defense-Basic Research		3,972
	STATE TOTAL				4,592
	Ohio	USAF	RDTE/Other Defense-Basic Research		2,470
					7,062
CONTRACTOR TOTAL					
U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		30
UES INC	Ohio	NAVY	RDTE/Other Defense-Basic Research		238
		USAF	RDTE/Other Defense-Basic Research		1,027
	STATE TOTAL				1,265
UNION CARBIDE CHEM & PLAS CO	Ohio	NAVY	RDTE/Other Defense-Basic Research		108
	Washington	NAVY	RDTE/Other Defense-Basic Research		52
					160
CONTRACTOR TOTAL					762
UNION CORPORATION	Penn	ARMY	RDTE/Other Defense-Basic Research		
UNISYS CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research		15,154
UNITED STATES DEPT INTERIOR	California	NAVY	RDTE/Other Defense-Basic Research		56
	Virginia	NAVY	RDTE/Other Defense-Basic Research		107
					163
CONTRACTOR TOTAL					495
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Basic Research		
	D.C.	NAVY	RDTE/Other Defense-Basic Research		684
	Maryland	NAVY	RDTE/Other Defense-Basic Research		7,593

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AD91 (CONTINUED)

CONTRACTOR TOTAL					\$	736
UNITED STATES DEPT OF ENERGY						
	Virginia		NAVY	RDTE/Other Defense-Basic Research		214
	Washington		NAVY	RDTE/Other Defense-Basic Research		9,723
	California		NAVY	RDTE/Other Defense-Basic Research		1,764
	D.C.		NAVY	RDTE/Other Defense-Basic Research		143
	Illinois		NAVY	RDTE/Other Defense-Basic Research		342
	New Jersey		NAVY	RDTE/Other Defense-Basic Research		99
	New Mexico		NAVY	RDTE/Other Defense-Basic Research		880
	New York		NAVY	RDTE/Other Defense-Basic Research		478
	Tennessee		NAVY	RDTE/Other Defense-Basic Research		323
	Washington		NAVY	RDTE/Other Defense-Basic Research		150
						4,179
CONTRACTOR TOTAL						548
UNITED TECHNOLOGIES CORP						
	Conn		NAVY	RDTE/Other Defense-Basic Research		100
	Florida		NAVY	RDTE/Other Defense-Basic Research		648
						400
CONTRACTOR TOTAL						337
UNIV OF MARYLAND COLLEGE PARK						
	Maryland		NAVY	RDTE/Other Defense-Basic Research		84
UNIVERSITIES SPACE RES ASSN						
	D.C.		NAVY	RDTE/Other Defense-Basic Research		3,464
UNIVERSITY OF ARIZONA						679
	Arizona		NAVY	RDTE/Other Defense-Basic Research		4,143
UNIVERSITY OF CALIFORNIA						
	California		NAVY	RDTE/Other Defense-Basic Research		200
			USAF	RDTE/Other Defense-Basic Research		350
						550
STATE TOTAL						50
UNIVERSITY OF CENTRAL FLORIDA						
	Florida		ARMY	RDTE/Other Defense-Basic Research		
			NAVY	RDTE/Other Defense-Basic Research		
STATE TOTAL						
UNIVERSITY OF CHICAGO THE						
	Illinois		NAVY	RDTE/Other Defense-Basic Research		

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AD91 (CONTINUED)					
	UNIVERSITY OF CINCINNATI	Virginia	NAVY	RDTE/Other Defense-Basic Research	125
	UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Other Defense-Basic Research	119
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Defense-Basic Research	3,268
	UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Other Defense-Basic Research	475
	UNIVERSITY OF HAWAII	Hawaii	NAVY	RDTE/Other Defense-Basic Research	908
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Other Defense-Basic Research	100
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Defense-Basic Research	84
			NAVY	RDTE/Other Defense-Basic Research	200
			STATE TOTAL		284
	UNIVERSITY OF MICHIGAN	Michigan	NAVY	RDTE/Other Defense-Basic Research	532
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Defense-Basic Research	1,897
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	30
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Defense-Basic Research	13,539
	UNIVERSITY OF TENNESSEE	Tennessee	USAF	RDTE/Other Defense-Basic Research	74
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Other Defense-Basic Research	70
	UNIVERSITY OF UTAH	Utah	NAVY	RDTE/Other Defense-Basic Research	1,340
			USAF	RDTE/Other Defense-Basic Research	1,087
			STATE TOTAL		2,427
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Basic Research	886
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Other Defense-Basic Research	75
	UNIVERSITY RES FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	93
	UNIVERSITY RESEARCH FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	2,291
	UNIVERSITY WISCONSIN MILWAUKEE	Wisconsin	USAF	RDTE/Other Defense-Basic Research	59
	VANDERBILT UNIVERSITY THE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	3,887
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Basic Research	113

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

	CONTRACTOR TOTAL				
	VECTOR RESEARCH INC		NAVY	RDTE/Other Defense-Basic Research	\$ 1,455
	VESTAR INC	Mass	NAVY	RDTE/Other Defense-Basic Research	1,567
	VISION APPLICATIONS INC	Michigan	USAF	RDTE/Other Defense-Basic Research	481
	WENT BURTON TECHNOLOGY INC	California	NAVY	RDTE/Other Defense-Basic Research	2,048
	WESTINGHOUSE ELECTRIC CORP	New York	NAVY	RDTE/Other Defense-Basic Research	250
		Ohio	USAF	RDTE/Other Defense-Basic Research	50
		Maryland	ARMY	RDTE/Other Defense-Basic Research	300
			NAVY	RDTE/Other Defense-Basic Research	59
					940
					311
	STATE TOTAL				1,251

	CONTRACTOR TOTAL				
	WESTLAND INC	Penn	NAVY	RDTE/Other Defense-Basic Research	1,952
	WHITTAKER CORPORATION	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research	3,204
	WON I J GEOPHEX LTD	California	NAVY	RDTE/Other Defense-Basic Research	950
	WOODS HOLE OCEANOGRAPHIC INST	N Carolina	NAVY	RDTE/Other Defense-Basic Research	35
	WRIGHT STATE UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	200
	XEROX CORP	Ohio	USAF	RDTE/Other Defense-Basic Research	1,421
		California	NAVY	RDTE/Other Defense-Basic Research	619
		New York	NAVY	RDTE/Other Defense-Basic Research	160
					51
	CONTRACTOR TOTAL				211

	CONTRACTOR TOTAL				
	XONTECH INC	California	NAVY	RDTE/Other Defense-Basic Research	30
	ZEGAR ABRAMS INCORPORATED	Penn	USAF	RDTE/Other Defense-Basic Research	99
	R&D TOTAL				527,286
	AD92 3M	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	23,561

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
	A & D ASSOCIATES	New York	ARMY	RDTE/Other Defense-Exploratory Development	\$ 44
	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	73
	A P A OPTICS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	250
			USAF	RDTE/Other Defense-Exploratory Development	228
	STATE TOTAL				477
	ACCUMWAVE CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ACT RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	52
	ACTA INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	113
	ACTIVE TECHNOLOGIES INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	246
	ACTRAN SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	199
	ADAPTIVE SENSORS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	98
			USAF	RDTE/Other Defense-Exploratory Development	100
	STATE TOTAL				198
	ADIABATICS INCORPORATED	Indiana	ARMY	RDTE/Other Defense-Exploratory Development	65
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	240
	ADVANCED CERAMICS RESEARCH	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	50
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	242
	ADVANCED ELECTRO MAGNETICS	New Mexico	USAF	RDTE/Other Defense-Exploratory Development	60
	ADVANCED ENGINEERING DESIGN	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	55
	ADVANCED MOTION CONTROLS INC	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	250
	ADVANCED OPTICAL SYSTEMS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	111
	ADVANCED RES & APPLICATIONS	Ohio	USAF	RDTE/Other Defense-Exploratory Development	260
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ADVANCED SPACE DATA CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	41

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	
AD92 (CONTINUED)					
	ADVANCED SURFACE TECHNOLOGY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 50
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	115
	ADVANCED SYSTEMS TECHNOLOGY	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	220
	ADVANCED TECHNOLOGY & RESEARCH	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	57
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	447
	CONTRACTOR TOTAL				504
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Defense-Exploratory Development	130
			NAVY	RDTE/Other Defense-Exploratory Development	540
	STATE TOTAL				670
	ADVANCED TECHNOLOGY TRANSFER I	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	50
	AEGIS RESEARCH	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	50
	AEL DEFENSE CORP	Penn	NAVY	RDTE/Other Defense-Exploratory Development	120
	AERO COMPOSITES	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50
	AEROCON INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	493
	AEROJET	California	ARMY	RDTE/Other Defense-Exploratory Development	1,453
	AEROSPATIALE	FRANCE	USAF	RDTE/Other Defense-Exploratory Development	75
	AETECH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	98
	AF SAMMER CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	48
	AIL SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	150
			USAF	RDTE/Other Defense-Exploratory Development	183
	STATE TOTAL				333
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	73
			USAF	RDTE/Other Defense-Exploratory Development	182
	STATE TOTAL				255

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	ALBANY TITANIUM INC	Oregon	USAF	RDTE/Other Defense-Exploratory Development	\$ 40-
	ALDEN ELECTRONICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	46
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	2,079
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	65
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	825
	CONTRACTOR TOTAL				2,968
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Other Defense-Exploratory Development	465
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,376
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	891
	CONTRACTOR TOTAL				3,731
	ALLIED SIGNAL INC	Arizona	USAF	RDTE/Other Defense-Exploratory Development	316
		California	USAF	RDTE/Other Defense-Exploratory Development	50-
		Illinois	ARMY	RDTE/Other Defense-Exploratory Development	175
			USAF	RDTE/Other Defense-Exploratory Development	150
	STATE TOTAL				325
	CONTRACTOR TOTAL				591
	ALLOY SURFACES CO	Delaware	NAVY	RDTE/Other Defense-Exploratory Development	74
	ALME & ASSOCIATES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200
	ALPHATECH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100
			NAVY	RDTE/Other Defense-Exploratory Development	49
	STATE TOTAL				149
	ALTERNATIVE SYSTEM CONCEPTS	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	54
	AMBER ENGINEERING INC	California	ARMY	RDTE/Other Defense-Exploratory Development	39
			USAF	RDTE/Other Defense-Exploratory Development	72
	STATE TOTAL				111
	AMDAHL FEDERAL SERVICE CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	67

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	AMERASIA TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 296
	AMERICAN ELECTRONICS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	650
	AMERICAN GNC CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	100
	AMERICAN TELEPHONE & TELG CO	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	481
		N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	14,325
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	2,269
	CONTRACTOR TOTAL				17,675
	AMERINEX ARTFL INTELLIGENCE	Mass	ARMY	RDTE/Other Defense-Exploratory Development	640
	AMHERST SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	AMPARO CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	42
	AMTEC CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,271
	ANALYSIS & TECHNOLOGY INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	350
		Penn	NAVY	RDTE/Other Defense-Exploratory Development	97
	CONTRACTOR TOTAL				447
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	11,276
		New York	USAF	RDTE/Other Defense-Exploratory Development	83
	CONTRACTOR TOTAL				11,359
	ANDERSEN ARTHUR & CO	Illinois	USAF	RDTE/Other Defense-Exploratory Development	503
	ANRO ENGINEERING INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100
	ANTAIRE CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development	48
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Exploratory Development	220
	APELDYN CORP	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	50
	APPLIED PULSED POWER	New York	ARMY	RDTE/Other Defense-Exploratory Development	248
	APPLIED RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	90

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AD92 (CONTINUED)

	CONTRACTOR TOTAL				
APPLIED RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	\$	938
APPLIED SCIENCE & TECHNOLOGY	Vermont	ARMY	RDTE/Other Defense-Exploratory Development		133
APPLIED TECH ASSOC INC DEL	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		971
APPLIED TECHNOLOGY ASSOCIATES					2,131
APPLIED THEORY INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		180
APTECH ENGINEERING SERVICES	Mass	ARMY	RDTE/Other Defense-Exploratory Development		349
APTEK INC	California	NAVY	PDTE/Other Defense-Exploratory Development		110
	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		211
	California	ARMY	RDTE/Other Defense-Exploratory Development		350
	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		49
	California	ARMY	RDTE/Other Defense-Exploratory Development		447
	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		1,163
					1,610
CONTRACTOR TOTAL					
ARBUS INC	Nevada	ARMY	RDTE/Other Defense-Exploratory Development		50
ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		505
ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Exploratory Development		303
ARGO TECH CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development		170
ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Exploratory Development		57
ARKALA GROUP	California	ARMY	RDTE/Other Defense-Exploratory Development		47
ARRAL INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		723
ARTEP INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		183
ASSURANCE TECHNOLOGY CORP	Florida	NAVY	RDTE/Other Defense-Exploratory Development		224
ASTRALUX	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		50
ASTROPOWER INC	Delaware	ARMY	RDTE/Other Defense-Exploratory Development		50

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AD92 (CONTINUED)					
	ASTROSYSTEMS INC	Delaware	USAF	RDTE/Other Defense-Exploratory Development	50
	ATHENA GROUP THE	Florida	ARMY	RDTE/Other Defense-Exploratory Development	106
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	119
			NAVY	RDTE/Other Defense-Exploratory Development	335
	STATE TOTAL				454
	ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	191
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	169
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	90
			NAVY	RDTE/Other Defense-Exploratory Development	117
	STATE TOTAL				207
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	600
			USAF	RDTE/Other Defense-Exploratory Development	995
	CONTRACTOR TOTAL				1,595
	ATOCHEM	Penn	ARMY	RDTE/Other Defense-Exploratory Development	238
	ATOM SCIENCES INC	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development	298
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	555
	AURORA TECHNOLOGIES CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	235
	AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Other Defense-Exploratory Development	443
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,869
	AUTOMETRIC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	AVANTEK INC	California	USAF	RDTE/Other Defense-Exploratory Development	1,205
	AVCO CORPORATION	Conn	USAF	RDTE/Other Defense-Exploratory Development	428
		Mass	USAF	RDTE/Other Defense-Exploratory Development	1,379
	CONTRACTOR TOTAL				1,807

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AD92 (CONTINUED)					
	AVCON ADVANCED CONTROLS TECH	California	USAF	RDTE/Other Defense-Exploratory Development	598
	AWARE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	363
	AZTEC SYSTEMS	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	92
	BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	585
	BAKER ALLAN INC	Kentucky	NAVY	RDTE/Other Defense-Exploratory Development	28
	BAKHAR ASSOCIATES	California	USAF	RDTE/Other Defense-Exploratory Development	302
	BALL CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	245
			USAF	RDTE/Other Defense-Exploratory Development	100
			STATE TOTAL		345
	BALLENA SYSTEMS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	146
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	11,901
			USAF	RDTE/Other Defense-Exploratory Development	1,556
			STATE TOTAL		13,457
		Washington	ARMY	RDTE/Other Defense-Exploratory Development	78
					13,535
	CONTRACTOR TOTAL				
	BAYLESS JOHN R CO	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	BDN INTERNATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	360
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	2,128
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,819
			USAF	RDTE/Other Defense-Exploratory Development	120
			STATE TOTAL		1,939
					4,426
	CONTRACTOR TOTAL				
	BDM MANAGEMENT SERVICES CO	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	26
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,350
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	4,881

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AD92 (CONTINUED)

CONTRACTOR TOTAL

BECHTEL GROUP INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	6,257
BELLENA SYSTEMS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		4,700
BELYTSCHKO TED INCORPORATED	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		50
BERKELEY RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		50
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,271
					2,019
					3,289

CONTRACTOR TOTAL

BESTAL CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		75
BETA ANALYTICS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		105
BIO-TECHNICAL RESOURCES	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development		50
BIOELASTICS RESEARCH LTD	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		51
BIOLOGICAL COMPONENTS CORP	California	NAVY	RDTE/Other Defense-Exploratory Development		99
BLACK & DECKER CORPORATION	Virginia	USAF	RDTE/Other Defense-Exploratory Development		366
BOEING AEROSPACE OPERATIONS	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		7,477
	Washington	USAF	RDTE/Other Defense-Exploratory Development		142
					7,619

CONTRACTOR TOTAL

BOEING COMPANY THE	Kansas	USAF	RDTE/Other Defense-Exploratory Development		500
	Washington	ARMY	RDTE/Other Defense-Exploratory Development		332
		NAVY	RDTE/Other Defense-Exploratory Development		154
		USAF	RDTE/Other Defense-Exploratory Development		122
					608
					1,108

CONTRACTOR TOTAL

BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other Defense-Exploratory Development		208
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		200
		NAVY	RDTE/Other Defense-Exploratory Development		729

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL		USAF	RDTE/Other Defense-Exploratory Development	550
			STATE TOTAL		1,479
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,687 6,962 553
			STATE TOTAL		7,514
		New York	USAF	RDTE/Other Defense-Exploratory Development	100
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	217
	CONTRACTOR TOTAL				7,831
	BREWER SCIENCE INC	Missouri	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	527 150
			STATE TOTAL		677
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	248
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	300
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	458
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,512
	C I SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	C LEC PLASTICS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	48
	C N R INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	49
	C V C PRODUCTS INC DEL	New York	NAVY	RDTE/Other Defense-Exploratory Development	350
	C V D INCORPORATED	Mass	USAF	RDTE/Other Defense-Exploratory Development	50
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Other Defense-Exploratory Development	117
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Other Defense-Exploratory Development	75
	CALIFORNIA INSTITUTE OF TECH	California	ARMY	RDTE/Other Defense-Exploratory Development	150
	CALIFORNIA RESEARCH & TECH	California	ARMY	RDTE/Other Defense-Exploratory Development	3,254

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AD92 (CONTINUED)

CONTRACTOR TOTAL					
CALL RECALL	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		386
CALSPAN CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		3,640
	Mass	USAF	RDTE/Other Defense-Exploratory Development		485
	New York	USAF	RDTE/Other Defense-Exploratory Development		100
					3,784
CONTRACTOR TOTAL					
CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Other Defense-Exploratory Development		3,884
		USAF	RDTE/Other Defense-Exploratory Development		528
					343
STATE TOTAL					
CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		872
CARCO ELECTRONICS	California	ARMY	RDTE/Other Defense-Exploratory Development		51
CARDINAL SCIENTIFIC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		731
CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		42
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development		50
		USAF	RDTE/Other Defense-Exploratory Development		6,306
					5,766
STATE TOTAL					
CARPENTER RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		12,072
	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		72
					85
CONTRACTOR TOTAL					
CARTWRIGHT ELECTRONICS INC	California	USAF	RDTE/Other Defense-Exploratory Development		157
CAS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		106
CENTER FOR REMOTE SENSING	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		7,338
CENTURY COMPUTING INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		50
CERACON INC	California	ARMY	RDTE/Other Defense-Exploratory Development		143
CERCOM INC	California	USAF	RDTE/Other Defense-Exploratory Development		200
					344

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)	CEXEC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	450
	CF TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	478
	CHANDLER MAY INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	44
	CHANG INDUSTRY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	CHESAPEAKE	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	67
	CHESTNUT SOFTWARE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	49
	CHIRP CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	CHRONOS RESEARCH LABORATORIES	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	CIM SYSTEMS INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	CIMFLEX TEKKNOWLEDGE CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	700
	CITY COLLEGE RES FOUNDATION	New York	USAF	RDTE/Other Defense-Exploratory Development	80
	CLARKE THOMAS L	Florida	ARMY	RDTE/Other Defense-Exploratory Development	49
	CLARKSON UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development	100
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	64
	COGNITIVE SYSTEMS INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	244
	COGNITIVE TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	COLEMAN RESEARCH CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	96
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Other Defense-Exploratory Development	393
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	7,250
	COMPACT SOFTWARE INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	237
	COMPOSIX COMPANY	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	66
	COMPOUND ENGINE CONSULTANTS	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	36
	COMPREHENSIVE TECH INTL	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	185
	COMPUDRIVE CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	226

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

COMPUTATIONAL MECHANICS CORP	Texas	USAF	RDTE/Other	Defense-Exploratory Development	\$ 249
COMPUTER AIDED PLANNING SCHDLNG	Georgia	ARMY	RDTE/Other	Defense-Exploratory Development	49
COMPUTER COMMAND AND CTRL CO	Penn	NAVY	RDTE/Other	Defense-Exploratory Development	210
COMPUTER LITERACY WORLD	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development	479
COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	1,137
COMPUTING DEVICES CANADA LTD	CANADA	NAVY	RDTE/Other	Defense-Exploratory Development	30
CONCORD HILL GROUP INC	Mass	ARMY	RDTE/Other	Defense-Exploratory Development	362
CONDUCTUS INC	California	NAVY	RDTE/Other	Defense-Exploratory Development	400
CONEXUS INC	California	ARMY	RDTE/Other	Defense-Exploratory Development	50
CONSOLIDATED PRODUCTS CORP	California	NAVY	RDTE/Other	Defense-Exploratory Development	41
CORNELL UNIVERSITY	New York	ARMY	RDTE/Other	Defense-Exploratory Development	974
		NAVY	RDTE/Other	Defense-Exploratory Development	218
		USAF	RDTE/Other	Defense-Exploratory Development	415
					1,607
STATE TOTAL					
CORNING INC	New York	USAF	RDTE/Other	Defense-Exploratory Development	297
CORPORATION FOR	California	ARMY	RDTE/Other	Defense-Exploratory Development	50
COUSINO METAL PRODUCTS INC	Ohio	ARMY	RDTE/Other	Defense-Exploratory Development	50
CREARE INC	N H.	ARMY	RDTE/Other	Defense-Exploratory Development	50
		USAF	RDTE/Other	Defense-Exploratory Development	155
					205
STATE TOTAL					
CREE RESEARCH INC	N Carolina	USAF	RDTE/Other	Defense-Exploratory Development	50
CRYSTALIZ INC	Mass	ARMY	RDTE/Other	Defense-Exploratory Development	53
CRYSTALLUME	California	USAF	RDTE/Other	Defense-Exploratory Development	263
CSA ENGINEERING INC	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	941
CSC ANALYTICS INC	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development	26

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CONTRACTOR TOTAL					\$	400
CUSTOM RESEARCH ENGINEERING	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		426	
CYBERNET SYSTEMS CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		49	
CYMER LASER TECHNOLOGIES	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		110	
DAEDALUS RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		49	
DAISY SYSTEMS CORPORATION	Utah	ARMY	RDTE/Other Defense-Exploratory Development		54	
DAMASKOS INC	California	NAVY	RDTE/Other Defense-Exploratory Development		29	
DASYS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		68	
	Penn	ARMY	RDTE/Other Defense-Exploratory Development		50	
		USAF	RDTE/Other Defense-Exploratory Development		165	
STATE TOTAL					215	
DAVID SARNOFF RESEARCH CENTER	California	USAF	RDTE/Other Defense-Exploratory Development		100	
	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		3,850	
		NAVY	RDTE/Other Defense-Exploratory Development		382	
		USAF	RDTE/Other Defense-Exploratory Development		30	
STATE TOTAL					4,261	
CONTRACTOR TOTAL					4,361	
DAWN TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		248	
DAYCHEM LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		225	
DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,483	
		USAF	RDTE/Other Defense-Exploratory Development		33	
STATE TOTAL					1,516	
DEEPSEA POWER & LIGHT INC	California	ARMY	RDTE/Other Defense-Exploratory Development		45	
DEFENSE GROUP INC	California	ARMY	RDTE/Other Defense-Exploratory Development		69	
DELFIN SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development		50	
		NAVY	RDTE/Other Defense-Exploratory Development		49	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	DESE RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	\$ 170
	DGI INDUSTRIES INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	270
	DIEHL GMBH & CO	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	50
	DIGITAL EQUIPMENT CORPORATION	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	190
		Maryland	NAVY	RDTE/Other Defense-Exploratory Development	218
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	25
			NAVY	RDTE/Other Defense-Exploratory Development	251
			ARMY	RDTE/Other Defense-Exploratory Development	198
					475
	CONTRACTOR TOTAL				50
	DIGITAL OPTICS CORP	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	281
	DIMENSION TECHNOLOGIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development	215
	DIRECTED TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	248
	DISPLAY SCIENCE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	57
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	150
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Exploratory Development	75
	DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Other Defense-Exploratory Development	99
	DRAGON SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	4,746
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	127
			USAF	RDTE/Other Defense-Exploratory Development	4,873
					1,926
	DU PONT E I DE NEMOURS & CO	Delaware	ARMY	RDTE/Other Defense-Exploratory Development	48
			NAVY	RDTE/Other Defense-Exploratory Development	1,164
			USAF	RDTE/Other Defense-Exploratory Development	3,137
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	75
			NAVY	RDTE/Other Defense-Exploratory Development	43

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AD92 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL	\$
DY 4 SYSTEMS INC	ARMY	RDTE/Other Defense-Exploratory Development	118
DYNA EAST CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development	76
DYNAFLOW INC	USAF	RDTE/Other Defense-Exploratory Development	558
DYNAMIC CONTROLS INC	USAF	RDTE/Other Defense-Exploratory Development	146
DYNAMIC SCIENCE INC	ARMY	RDTE/Other Defense-Exploratory Development	280
	ARMY	RDTE/Other Defense-Exploratory Development	392
	ARMY	RDTE/Other Defense-Exploratory Development	830
CONTRACTOR TOTAL			1,222
DYNAMICS TECHNOLOGY	NAVY	RDTE/Other Defense-Exploratory Development	372
DYNATHERM CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development	247
DYNCORP	USAF	RDTE/Other Defense-Exploratory Development	200
DYNETICS INC	ARMY	RDTE/Other Defense-Exploratory Development	7,081
	USAF	RDTE/Other Defense-Exploratory Development	99
CONTRACTOR TOTAL			7,179
E I C LABORATORY INC	ARMY	RDTE/Other Defense-Exploratory Development	126
E TEK DYNAMICS INC	ARMY	RDTE/Other Defense-Exploratory Development	52
E-OIR MEASUREMENTS INC	USAF	RDTE/Other Defense-Exploratory Development	334
E-SYSTEMS INC	ARMY	RDTE/Other Defense-Exploratory Development	4,845
	NAVY	RDTE/Other Defense-Exploratory Development	2,047
	USAF	RDTE/Other Defense-Exploratory Development	358
STATE TOTAL			7,251
	USAF	RDTE/Other Defense-Exploratory Development	75
CONTRACTOR TOTAL			7,326
EAGLE PICHER INDUSTRIES INC	USAF	RDTE/Other Defense-Exploratory Development	160
EAGLE SYSTEMS INC	NAVY	RDTE/Other Defense-Exploratory Development	848

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Exploratory Development	150
	EAI CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,306
	EASTERN COMPUTERS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,524
	EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Other Defense-Exploratory Development	327
			USAF	RDTE/Other Defense-Exploratory Development	710
		STATE TOTAL			1,037
	EASTPORT CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	73
	EATON CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,722
	EBASCO SERVICES INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	4,700
	EDGE SYSTEMS INC	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	209
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	11,412
	EG&G INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	581
	EG&G SEALOL INC	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	291
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	178
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	50
	ELECTRO-OPTIK CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	246
	ELECTROCHEMICAL SYSTEMS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	249
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	1,037
	ELECTRONIC CONCEPTS & ENGINEER	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	59
	ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	297
			USAF	RDTE/Other Defense-Exploratory Development	5,000
		STATE TOTAL			5,297
	ELECTRONICS DEVELOPMENT CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	136
	EMC SCIENCE CENTER INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	25

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AD92 (CONTINUED)					
	EMC SCIENCE CTR INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	1,432
	EMCOR ELECTROMAGNETIX CORP	Florida	ARMY	RDTE/Other Defense-Exploratory Development	49
	EMCORE CORPORATION	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
			NAVY	RDTE/Other Defense-Exploratory Development	320
			USAF	RDTE/Other Defense-Exploratory Development	250
	STATE TOTAL				620
	EMERSON & STERN ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	55
	ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	346
	ENGINEERING DESIGN TEAM & IN	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	52
	ENGINEERING TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	88
	ENGINEERING TECHNOLOGY INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	125
	ENSCO INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	4,707
			NAVY	RDTE/Other Defense-Exploratory Development	26
			USAF	RDTE/Other Defense-Exploratory Development	173
	STATE TOTAL				4,906
	ENSIGN BICKFORD AEROSPACE CO	Conn	ARMY	RDTE/Other Defense-Exploratory Development	138
	ENTEK INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	663
	ENTROPIC RESEARCH LABORATORY I	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	298
	ENVIRNMENTAL RES INST OF MICH	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	5,597
			NAVY	RDTE/Other Defense-Exploratory Development	45
			USAF	RDTE/Other Defense-Exploratory Development	901
	STATE TOTAL				6,543
	ENVIRO-MANAGEMENT & RESEARCH	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	82
	ENVIRONMENTAL BIOTECHNOLOGIES	California	ARMY	RDTE/Other Defense-Exploratory Development	54
	ENVIRONMENTAL DIAGNOSTICS	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	200
	ENVIRONMENTAL TECHNOLOGIES GRO	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,923
	ENVIRONMENTAL PHYSICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	EPION CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	ERNST MACH INSTITUTE	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	200
	F & M MANUFACTURING INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	48
		USAF	RDTE/Other Defense-Exploratory Development	518	
		STATE TOTAL			567
	FALCON ASSOCIATES LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,988
	FASTMAN INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	53
	FCD CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	50
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				50
	FERMIONICS CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	108
	FIBER & SENSOR TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Other Defense-Exploratory Development	50
	FIMOD CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	FLAM & RUSSELL INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	49
	FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Other Defense-Exploratory Development	100
	FLORIDA INTERNATIONAL UNIV	Florida	ARMY	RDTE/Other Defense-Exploratory Development	83
	FLOUROCHEM INC	California	ARMY	RDTE/Other Defense-Exploratory Development	57-
	FM TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	FMC CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	335
		Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	5,373
	CONTRACTOR TOTAL				5,709
	FORE SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	687
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	433

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

FOSTER-MILLER INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$	358
FRONTIER ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		183
FUENTEZ SYSTEMS CONCEPTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development		139
FUTURES GROUP INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development		164
G & F COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		7,424
G P S ENGINEERING & MACHINE	Nevada	ARMY	RDTE/Other Defense-Exploratory Development		74
GARJAK RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		494
GARKANE POWER ASSOCIATION INC	California	ARMY	RDTE/Other Defense-Exploratory Development		50
GEIGER ELECTRONICS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		86
GELEST INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		50
GEMINI INDUSTRIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development		663
GENERAL ATOMICS	California	ARMY	RDTE/Other Defense-Exploratory Development		368
	NAVY		RDTE/Other Defense-Exploratory Development		36
	USAF		RDTE/Other Defense-Exploratory Development		316
			STATE TOTAL		720
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		37,938
	NAVY		RDTE/Other Defense-Exploratory Development		41
	USAF		RDTE/Other Defense-Exploratory Development		420
			STATE TOTAL		38,399
	Conn	ARMY	RDTE/Other Defense-Exploratory Development		1,580
	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		2,446
	Texas	ARMY	RDTE/Other Defense-Exploratory Development		526
CONTRACTOR TOTAL					42,951
GENERAL ELCTRC-RCA TECH LAB JV	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		138
GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other Defense-Exploratory Development		3,460
	Mass	USAF	RDTE/Other Defense-Exploratory Development		340

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

GENERAL FIBER OPTICS INC	New Jersey	ARMY	RDTE/Other	Defense-Exploratory Development	\$ 175
		NAVY	RDTE/Other	Defense-Exploratory Development	143
	USAF	Defense-Exploratory Development	283		
GENERAL MOTORS CORPORATION	STATE TOTAL				601
	New York	ARMY	RDTE/Other	Defense-Exploratory Development	4,194
		NAVY	RDTE/Other	Defense-Exploratory Development	3,791
	USAF	Defense-Exploratory Development	2,573		
	STATE TOTAL				10,558
	Ohio	NAVY	RDTE/Other	Defense-Exploratory Development	1,148
		USAF	RDTE/Other	Defense-Exploratory Development	7,162
	STATE TOTAL				8,311
	Penn	ARMY	RDTE/Other	Defense-Exploratory Development	550
		USAF	RDTE/Other	Defense-Exploratory Development	300
	STATE TOTAL				850
	Vermont	ARMY	RDTE/Other	Defense-Exploratory Development	1,216
					25,335
	STATE TOTAL				49
	New Jersey	ARMY	RDTE/Other	Defense-Exploratory Development	86
	California	USAF	RDTE/Other	Defense-Exploratory Development	255
	Indiana	ARMY	RDTE/Other	Defense-Exploratory Development	512
	NAVY	RDTE/Other	Defense-Exploratory Development	690	
	USAF	RDTE/Other	Defense-Exploratory Development	1,457	
	STATE TOTAL				1,543
GENERAL RESEARCH CORPORATION	California	ARMY	RDTE/Other	Defense-Exploratory Development	1,203
		NAVY	RDTE/Other	Defense-Exploratory Development	60
	USAF	Defense-Exploratory Development	2,760		
	STATE TOTAL				4,023
GENERAL SCIENCES INC	Penn	ARMY	RDTE/Other	Defense-Exploratory Development	416
	New York	USAF	RDTE/Other	Defense-Exploratory Development	260
	STATE TOTAL				

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AD92 (CONTINUED)					
	GEO CENTERS INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	1,399
	CONTRACTOR TOTAL	Mass	ARMY	RDTE/Other Defense-Exploratory Development	547
	GEO-CENTERS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	1,946
	GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Other Defense-Exploratory Development	108
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	USAF	RDTE/Other Defense-Exploratory Development	50
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Defense-Exploratory Development	89
			NAVY	RDTE/Other Defense-Exploratory Development	2,609
			USAF	RDTE/Other Defense-Exploratory Development	10
			USAF	RDTE/Other Defense-Exploratory Development	1,066
		STATE TOTAL			3,785
	GILEAD SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,209
	GILFILLAN LYNNE ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	447
	GOVERNMENT MICRO RESOURCES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	106
	GRADIANT LENS CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	300
	GREYSTONE DEFENSE SYSTEMS DIVI	California	ARMY	RDTE/Other Defense-Exploratory Development	54
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	30
		Florida	USAF	RDTE/Other Defense-Exploratory Development	50
		New York	ARMY	RDTE/Other Defense-Exploratory Development	85
			USAF	RDTE/Other Defense-Exploratory Development	145-
		STATE TOTAL			60-
	CONTRACTOR TOTAL				19
	GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	130
			USAF	RDTE/Other Defense-Exploratory Development	859
		STATE TOTAL			989
	GTE CORPORATION	Mass	USAF	RDTE/Other Defense-Exploratory Development	491

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AD92 (CONTINUED)					
	GTE GOVERNMENT SYSTEMS CORP	Mass	NAVY	RDTE/Other Defense-Exploratory Development	\$ 134
	GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	49
	H-TECH LABORATORIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	27
	HARRIS CORPORATION	Florida	NAVY	RDTE/Other Defense-Exploratory Development	1,470
			USAF	RDTE/Other Defense-Exploratory Development	3,160
			STATE TOTAL		4,630
	HARRIS GROUP THE INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	149
	HARVARD COLLEGE	Mass	NAVY	RDTE/Other Defense-Exploratory Development	49
	HARVARD UNIVERSITY	Maine	USAF	RDTE/Other Defense-Exploratory Development	132
	HAZELTINE CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	158
	HERCULES INCORPORATED	W Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,628
	HEWLETT-PACKARD COMPANY	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	1,276
	HI Z TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	250
	HIBBITT KARLSSON & SORENSEN	Rhode Isld	ARMY	RDTE/Other Defense-Exploratory Development	34
	HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	2,031
		Georgia	ARMY	RDTE/Other Defense-Exploratory Development	209
					2,241
	CONTRACTOR TOTAL				
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development	100
	HNC INC	California	ARMY	RDTE/Other Defense-Exploratory Development	337
	HOLTGREN INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
	HONEYWELL INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	29
		Florida	ARMY	RDTE/Other Defense-Exploratory Development	706
		Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	4,588
			NAVY	RDTE/Other Defense-Exploratory Development	315
			USAF	RDTE/Other Defense-Exploratory Development	4,060

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL	\$	
HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	8,963
HOUSTON ADVANCED RESEARCH CTR	Texas	ARMY	RDTE/Other Defense-Exploratory Development	9,698
HOWARD UNIVERSITY	D.C.	USAF	RDTE/Other Defense-Exploratory Development	2,220
HRB SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	750
		USAF	RDTE/Other Defense-Exploratory Development	229
				130
				208
		STATE TOTAL		338
HUGHES AIRCRAFT COMPANY	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	37
	California	ARMY	RDTE/Other Defense-Exploratory Development	15,926
		NAVY	RDTE/Other Defense-Exploratory Development	140
		USAF	RDTE/Other Defense-Exploratory Development	1,842
		STATE TOTAL		17,908
	Conn	ARMY	RDTE/Other Defense-Exploratory Development	269
				18,214
HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Other Defense-Exploratory Development	200
HUGHES NETWORK SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	605
HUMAN RSRCES RES ORGANIZATION	Virginia	USAF	RDTE/Other Defense-Exploratory Development	619
HUNTING ENGINEERING LIMITED	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development	150
HY TECH RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	300
HY-TECH RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	499
HYDRO PRODUCTS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	949
HYPRES INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
		USAF	RDTE/Other Defense-Exploratory Development	250
		STATE TOTAL		300
I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	137

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	\$ 351
		Indiana	ARMY	RDTE/Other Defense-Exploratory Development	110
		New York	USAF	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				511
	I-KINETICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	57
	IBIS TECHNOLOGY CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	439
	II VI INCORPORATED	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	ILLINOIS INST OF TECH	Illinois	USAF	RDTE/Other Defense-Exploratory Development	150
	IMAGING SCIENCE TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	252
	INDIANA UNIVERSITY SYSTEM	Indiana	USAF	RDTE/Other Defense-Exploratory Development	355
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	295
	INDUSTRIAL SENSORS & ACTUATORS	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	INFORMATION SCIENCE INC	California	ARMY	RDTE/Other Defense-Exploratory Development	315
	INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	246
	INFORMATION SYSTEMS NTRKS CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	146
	INFOSYSTEMS TECHNOLOGY INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	372
	INNOVA LABORATORIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	58
	INNOVATIVE CONFIGURATION INC	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	INNOVATIVE DYNAMICS	New York	ARMY	RDTE/Other Defense-Exploratory Development	51
	INTEGRATED SENSORS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	49
			USAF	RDTE/Other Defense-Exploratory Development	53
	STATE TOTAL				102
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	67
	INTEL CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	11,691

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD92 (CONTINUED)

INTELLECTION INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	\$	50
INTELLIGENT IMAGES INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		72
INTELLIGENT MACHINE TECH CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development		200
INTELLIGENT REASONING SYSTEMS	New Mexico	NAVY	RDTE/Other Defense-Exploratory Development		48
INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		50
INTERMAGNETICS GENERAL CORP	Conn	USAF	RDTE/Other Defense-Exploratory Development		68
	New York	USAF	RDTE/Other Defense-Exploratory Development		68
CONTRACTOR TOTAL					135
INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		81
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development		1,654
		NAVY	RDTE/Other Defense-Exploratory Development		107
		USAF	RDTE/Other Defense-Exploratory Development		323
STATE TOTAL					2,084
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,801
		USAF	RDTE/Other Defense-Exploratory Development		4,155
CONTRACTOR TOTAL					5,956
INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Other Defense-Exploratory Development		50
		USAF	RDTE/Other Defense-Exploratory Development		1,886
STATE TOTAL					1,936
INTERNATIONAL SOLAR ELECTRICAL	California	ARMY	RDTE/Other Defense-Exploratory Development		48
INTERNTL COMM RAD UNITS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		60
INTERSCIENCE INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		509
IONEDGE CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		50
IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development		182
ISX CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		1,497

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ITT CORPORATION		USAF	RDTE/Other Defense-Exploratory Development	108
		STATE TOTAL			1,604
		New Jersey	USAF	RDTE/Other Defense-Exploratory Development	104
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	130
					234
	ITT GILFILLAN	California	USAF	RDTE/Other Defense-Exploratory Development	63
	J S P INDUSTRIES INC	Kansas	ARMY	RDTE/Other Defense-Exploratory Development	47
	JAMESON ROBOTICS	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	JASON ASSOCIATES CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	2,889
	JAYCOR	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development	21,722
					110
		STATE TOTAL			21,832
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	300
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,604
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,323
					26,060
	CONTRACTOR TOTAL				
	JBS TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	52
	JET PROCESS CORPORATION	Conn	ARMY	RDTE/Other Defense-Exploratory Development	355
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development	190
			USAF	RDTE/Other Defense-Exploratory Development	185
					105
		STATE TOTAL			480
	JOHNSON CONTROLS INC	Wisconsin	USAF	RDTE/Other Defense-Exploratory Development	110
	JOHNSON CONTROLS WORLD SERVICE	Nevada	ARMY	RDTE/Other Defense-Exploratory Development	553
	JOHNSON MATTHEY ELECTRONICS IN	Washington	ARMY	RDTE/Other Defense-Exploratory Development	7,391
	JWA DIV	Washington	ARMY	RDTE/Other Defense-Exploratory Development	50

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AD92 (CONTINUED)					
	K V H INDUSTRIES INC	Rhode Isl	ARMY	RDTE/Other Defense-Exploratory Development	400
	KAMAN SCIENCES CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	601
		Colorado	ARMY USAF	RDIE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	14,927 74
		STATE TOTAL			15,002
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	126
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	600
		New York	USAF	RDTE/Other Defense-Exploratory Development	3,138
	CONTRACTOR TOTAL				19,467
	KARAGOZIAN & CASE	California	ARMY	RDTE/Other Defense-Exploratory Development	514
	KARP SHERMAN	Maryland	USAF	RDTE/Other Defense-Exploratory Development	41
	KESTREL ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	867
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	62
	CONTRACTOR TOTAL				929
	KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Exploratory Development	620
	KINETICS GEN INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development	50
	KNIGHTRONIX INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	250
	KNOWLEDGE BASED SYSTEM	Texas	ARMY	RDTE/Other Defense-Exploratory Development	65
	KNOWLEDGE BASED SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	150
	KNOWLEDGE INDUSTRIES	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 47
		STATE TOTAL			97
	KOPIN CORPORATION	Mass	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	3,928 531
		STATE TOTAL			4,459

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AD92 (CONTINUED)					
	KPMG PEAT MARWICK	D. C.	ARMY	RDTE/Other Defense-Exploratory Development	\$ 1,011
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	2,013
	KTECH CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	795
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	286
	L N K CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	1,184
	L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	306
	LABORATORY ANIMAL BREEDERS SVC	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	561
	LACHEL & ASSOCIATES	Kentucky	ARMY	RDTE/Other Defense-Exploratory Development	400
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	294
	CONTRACTOR TOTAL				694
	LANXIDE CORP	Delaware	ARMY	RDTE/Other Defense-Exploratory Development	150
	LASER PHOTONICS TECHNOLOGY	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	LASER POWER CORP	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	295 228
		STATE TOTAL			523
	LASER TOOLS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	50
	LEHIGH UNIVERSITY	Penn	USAF	RDTE/Other Defense-Exploratory Development	40
	LIBRASCOPE CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	358
	LIGHT SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	LIGHTWAVE ELECTRONICS CORP	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 133
		STATE TOTAL			183
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	149
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	131
	LITTON SYSTEMS INC	California	USAF	RDTE/Other Defense-Exploratory Development	495
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	315

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AD92 (CONTINUED)

		USAF	RDTE/Other Defense-Exploratory Development	\$	500
	STATE TOTAL				815
	Maryland	USAF	RDTE/Other Defense-Exploratory Development		161
	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development		225
					1,696
	CONTRACTOR TOTAL				44
LIVERMORE SOFTWARE TECHNOLOGY	California	NAVY	RDTE/Other Defense-Exploratory Development		80-
LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Other Defense-Exploratory Development		6,723
LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Defense-Exploratory Development		396
	USAF				7,118
	STATE TOTAL				6,853
	Nevada	ARMY	RDTE/Other Defense-Exploratory Development		13,972
					46
	N.H.	NAVY	RDTE/Other Defense-Exploratory Development		968
	USAF				1,014
	STATE TOTAL				150
LOCUS INC	Conn	NAVY	RDTE/Other Defense-Exploratory Development		4,603
	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		4,974
	Penn	NAVY	RDTE/Other Defense-Exploratory Development		9,726
					96
	CONTRACTOR TOTAL				57
LOGICA DEFENCE & CIVIL GOVERNMENT	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development		3,843
LOGICON INC	California	ARMY	RDTE/Other Defense-Exploratory Development		3,899
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		245-
					56
	CONTRACTOR TOTAL				
LOGICON ULTRASYSTEMS INC	California	USAF	RDTE/Other Defense-Exploratory Development		
LONE PEAK ENGINEERING INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development		

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AD92 (CONTINUED)

LOREAL AEROSPACE CORP	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	66 100
	STATE TOTAL				166
LOREAL CORP	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		161 15,888
	STATE TOTAL				16,049
	D C	NAVY	RDTE/Other Defense-Exploratory Development		122
	New York	USAF	RDTE/Other Defense-Exploratory Development		150
	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		16,321 163,692 122
	STATE TOTAL				163,814
CONTRACTOR TOTAL					600
LOREAL VOUGHT SYSTEMS	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		213
LOS ALAMOS TECHNICAL ASSOC INC	California	USAF	RDTE/Other Defense-Exploratory Development		125
LUBRICATING SPC COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		204
LUCID, INC.	Florida	NAVY	RDTE/Other Defense-Exploratory Development		50 276
LUNDY ELECTRONICS & SYSTEMS	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		326
LYNNTECH INC	STATE TOTAL				50
M DOT INCORPORATED	Arizona	ARMY	RDTE/Other Defense-Exploratory Development		100
M L ENERGIA INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		430
M R J INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,901
M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		99
M/A-COM INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		661
MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		197
MACH I INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

MADEN TECH CONSULTING INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	\$	601
MAGNASCREEN CORPORATION	Penn	USAF	RDTE/Other Defense-Exploratory Development		2,561
MAGNAVOX GOVT & INDSTR ELCTR	Indiana	ARMY	RDTE/Other Defense-Exploratory Development		517
MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		50
MAK TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		55
MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		50
MANDEX INC	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		99 510
	STATE TOTAL				609
MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development		3,732
MARK RESOURCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		50
MARTIN ELECTRONICS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		100
MARTIN MARIETTA CORPORATION	Colorado	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		3,894 997
	STATE TOTAL				4,890
	Florida	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		1,634 602
	STATE TOTAL				2,236
	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		355 53
	STATE TOTAL				408
CONTRACTOR TOTAL					7,535
MARTIN SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		48
MARYLAND TECHNOLOGY	Maryland	USAF	RDTE/Other Defense-Exploratory Development		50
MASSACHUSETTS INST OF TECHNOLOG	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		4,275 2,189

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AD92 (CONTINUED)

	MASSACHUSETTS TECH LAB	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 6,464
	MATEC CORPORATION	Delaware	NAVY	RDTE/Other Defense-Exploratory Development	50
	MATERIALS AND SYSTEMS RESEARCH	Utah	ARMY	RDTE/Other Defense-Exploratory Development	60
	MATERIALS ELECTROCHEMICAL RES	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	49
	MAXWELL LABORATORIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	100
			USAF	RDTE/Other Defense-Exploratory Development	20,879
					135
					21,014
	MAYO FOUNDATION	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	200
	MCDONNELL AIRCRAFT COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development	3,700
	MCDONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	50
			USAF	RDTE/Other Defense-Exploratory Development	30
					80
		Missouri	ARMY	RDTE/Other Defense-Exploratory Development	5,100
			USAF	RDTE/Other Defense-Exploratory Development	2,621
					7,721
					392
		Texas	USAF	RDTE/Other Defense-Exploratory Development	8,192
	CONTRACTOR TOTAL				
	MCDONNELL DOUGLAS MSL SYS CO	Missouri	USAF	RDTE/Other Defense-Exploratory Development	105
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Other Defense-Exploratory Development	46
	MCNC	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	403
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development	2,609
	MEDOX RESEARCH INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	509
	MELLEN COMPANY INC	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	376
	MEMBRANE TECHNOLOGY & RESEARCH	California	USAF	RDTE/Other Defense-Exploratory Development	134

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AD92 (CONTINUED)					
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	4,422
	MERIDIAN INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	47
	MERIX CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	182
	MERRIFIELD LABORATORIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	75
	MERRITT CASES, INC.	California	ARMY	RDTE/Other Defense-Exploratory Development	32
	MESA INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	783
	METATECH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,705
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	219
	METRICA INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	310
	METROLASER	California	ARMY	RDTE/Other Defense-Exploratory Development	250
	METRON INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	2,752
	METSAT INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	177
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Exploratory Development	560
	MICHIGAN STATE UNIVERSITY	Michigan	USAF	RDTE/Other Defense-Exploratory Development	78
	MICRACOR INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	298
	MICRILOR INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	69
	MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	415
	MICROELECTRONICS CMPT TECH CORP	Texas	ARMY	RDTE/Other Defense-Exploratory Development	804
	MICROSENSOR SYSTEMS, INC.	Kentucky	ARMY	RDTE/Other Defense-Exploratory Development	150
	MICROWAVE MONOLITHICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	852
	MILLIMETER WAVE TECHNOLOGY	Georgia	ARMY	RDTE/Other Defense-Exploratory Development	50
	MIRAGE SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	398
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	14,211

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	MO SCI CORP	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	1,974
	MODELL DEVELOPMENT CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	1,004
	MOLECULAR DEVICES CORPORATION	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	17,189
	MOLECULAR PROBES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	51
	MOLECULAR TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	242
	MOLTECH CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	939
	MOLZEN-CORBIN & ASSOCIATES PA	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	MORGAN RESEARCH CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	245
	MORGAN STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	100
	MRV COMMUNICATION INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	295
	MSNW INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	1,455
	MTA INC	California	NAVY	RDTE/Other Defense-Exploratory Development	50
	N S IGOWADIA INC	California	USAF	RDTE/Other Defense-Exploratory Development	345
	NANOSTRUCTURES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	91
	NATIONAL ACADEMY SCIENCES USA	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	201
	NATIONAL SEC PLG ASSOC INC	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	NATIONAL SECURITY PLANNING ASS	California	ARMY	RDTE/Other Defense-Exploratory Development	247
	NAVSYN CORPORATION	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	1,388
	NCEE	Mass	ARMY	RDTE/Other Defense-Exploratory Development	990
	NETROLOGIC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	685
	NETWORK DYNAMICS INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	50
		New York	USAF	RDTE/Other Defense-Exploratory Development	40
		California	ARMY	RDTE/Other Defense-Exploratory Development	97
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

NETWORK FIELD SVCS	Indiana	NAVY	RDTE/Other Defense-Exploratory Development	\$	29
NEURODYNE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		55
NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Defense-Exploratory Development		80
NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		85
NEW TECHNOLOGY INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		25-
NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development		25,247 653
	STATE TOTAL				25,900
	Michigan	USAF	RDTE/Other Defense-Exploratory Development		135
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		200
					26,235
CONTRACTOR TOTAL					
NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Defense-Exploratory Development		67
NONLINEAR PRODUCTION SYSTEMS	Oregon	ARMY	RDTE/Other Defense-Exploratory Development		56
NORDEN SYSTEMS INC	Conn	ARMY USAF	RDTE/Other Defense-Exploratory Development		442 313
	STATE TOTAL				754
NORTH CAROLINA A&T STATE UNIV	N Carolina	USAF	RDTE/Other Defense-Exploratory Development		125
NORTH CAROLINA STATE UNIV	N Carolina	NAVY USAF	RDTE/Other Defense-Exploratory Development		238 85
	STATE TOTAL				323
NORTH STAR RESEARCH CORP	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		50
NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Other Defense-Exploratory Development		37
NORTHROP CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development		2,403 958
	STATE TOTAL				3,361
	Illinois	USAF	RDTE/Other Defense-Exploratory Development		343

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AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Other Defense-Exploratory Development	3,704
	NOVEX CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	699
	OASIS RESEARCH CENTER INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	50
	ODETICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	100
	ODYSSEY CONTRACTING COMPANY	New York	USAF	RDTE/Other Defense-Exploratory Development	49
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Exploratory Development	639
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	171
			USAF	RDTE/Other Defense-Exploratory Development	70
				RDTE/Other Defense-Exploratory Development	106
	STATE TOTAL				176
	OKLAHOMA STATE UNIVERSITY	Oklahoma	USAF	RDTE/Other Defense-Exploratory Development	1,000
	OMNI VIEW INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	55
	ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	302
	ONYX SCIENCES CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	OPTELECOM INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	777
	OPTICAL E T C INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	98
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Exploratory Development	204
	OPTICOMP CORPORATION	Nevada	USAF	RDTE/Other Defense-Exploratory Development	129
	OPTIMAL ANALYSIS CO INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	408
	OPTIVISION INC	California	ARMY	RDTE/Other Defense-Exploratory Development	309
			USAF	RDTE/Other Defense-Exploratory Development	150
	STATE TOTAL				459
	OPTO ELECTRIC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	49
	OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	99

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ORBITAL RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	100
	ORBITAL SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	5,005
	ORGANIZATIONAL RESCH & DEVEL	Georgia	USAF	RDTE/Other Defense-Exploratory Development	73
	ORINCON CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	99
	ORION INTERNATIONAL TECH	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	155
	PACER SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	132
		Penn	NAVY	RDTE/Other Defense-Exploratory Development	2,353
	CONTRACTOR TOTAL				2,485
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	1,749
			NAVY	RDTE/Other Defense-Exploratory Development	672
	STATE TOTAL				2,421
	PACIFICA TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development	92
	PAI CORPORATION	Nevada	ARMY	RDTE/Other Defense-Exploratory Development	300
	PAM RESEARCH COMPANY	Florida	ARMY	RDTE/Other Defense-Exploratory Development	63
	PANASONIC OR MATSUSHITA ELEC C	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	196
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	767
	PARAMAX SYSTEMS CORP	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	49-
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	30
	CONTRACTOR TOTAL				20-
	PARTICLE TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	100
	PDA ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development	425
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	30
	CONTRACTOR TOTAL				455
	PDF SOLUTIONS	Penn	ARMY	RDTE/Other Defense-Exploratory Development	98

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AD92 (CONTINUED)

PENETRADAR CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	\$	46
PENNSYLVANIA STATE UNIVERSITY	Penn	USAF	RDTE/Other Defense-Exploratory Development		112
PERCEPTRONICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		950
PERFECT OPTICS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		55
PETERSON RESEARCH AND DESIGN	Mass	ARMY	RDTE/Other Defense-Exploratory Development		85
PHOENIX CHEMICAL LABORATORY	Illinois	USAF	RDTE/Other Defense-Exploratory Development		80
PHOTO METRIC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		141
PHOTONICS RESEARCH INC	Colorado	USAF	RDTE/Other Defense-Exploratory Development		100
PHOTONICS SYSTEMS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		4,324
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		397
PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		97
PHYSICAL SCIENCES INC	Mass	ARMY NAVY	RDTE/Other Defense-Exploratory Development		545 225
STATE TOTAL					770
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		14,916
PHYSITRON INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		501
PIERCE JOHN B FOUNDATION LAB	Conn	USAF	RDTE/Other Defense-Exploratory Development		323
PINNACLE RESEARCH INSTITUTE	California	ARMY	RDTE/Other Defense-Exploratory Development		600
PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development		5,722
PLANNING SYSTEMS INCORPORATED	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		438
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		115
CONTRACTOR TOTAL					553
PLASMACO INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		398
PLASTIC CAPACITORS INC	Louisiana	NAVY	RDTE/Other Defense-Exploratory Development		326

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AD92 (CONTINUED)

PLG INC	California	ARMY	RDTE/Other Defense-Expioratory Development	\$	400
POLYTECHNIC UNIVERSITY	New York	ARMY	RDTE/Other Defense-Exploratory Development		400
POTOMAC PHOTONICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		50
PRC INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development		716
PROCESS ANALYSTS INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		263
PROFESSIONAL AND SCIENTIFIC AS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		308
PROMETHEUS INC	Rhode Isld	ARMY	RDTE/Other Defense-Exploratory Development		117
PROTOTYPE SIMULATIONS	California	ARMY	RDTE/Other Defense-Exploratory Development		50
PULSE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		559
PYMATUNING GROUP INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		167
Q DOT INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		148
QUAD DESIGN TECHNOLOGY	California	NAVY	RDTE/Other Defense-Exploratory Development		79
QUALCOMM INC	California	ARMY	RDTE/Other Defense-Exploratory Development		687
QUALITY ELEVATOR SERVICE	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		740
QUALITY RESEARCH DEVELOPMENT A	Miss	ARMY	RDTE/Other Defense-Exploratory Development		55
QUANTUM ADVANCED TECHNOLOGY IN	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		50
QUANTUM CONTROLS	Texas	ARMY	RDTE/Other Defense-Exploratory Development		50
QUATRO CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		50
QUEST INTEGRATED INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development		47
	USAF		RDTE/Other Defense-Exploratory Development		213
	STATE TOTAL				260
QUESTECH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		304
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		2,341
CONTRACTOR TOTAL					2,645

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AD92 (CONTINUED)					
	R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	\$ 20,782
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	67
		BELGIUM	ARMY	RDTE/Other Defense-Exploratory Development	1,938
		GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	123
	CONTRACTOR TOTAL				22,909
	RACAL COMMUNICATIONS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	86
	RADCLIFF USA LTD INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	47
	RADCON	California	ARMY	RDTE/Other Defense-Exploratory Development	68
	RADIANT TECHNOLOGIES INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	200
	RADIX SYSTEMS INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	81
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	33,340
			NAVY	RDTE/Other Defense-Exploratory Development	356
			USAF	RDTE/Other Defense-Exploratory Development	917
	STATE TOTAL				34,613
		EGYPT	ARMY	RDTE/Other Defense-Exploratory Development	181
	CONTRACTOR TOTAL				34,794
	RAYTHEON SERVICE COMPANY	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	5,836
	RE & SPEC INC	S Dakota	ARMY	RDTE/Other Defense-Exploratory Development	250
	RECOGNITION TECHNOLOGY INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	249
	RECON OPTICAL INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	131
	REDWOOD MICROSYSTEM INC	California	ARMY	RDTE/Other Defense-Exploratory Development	70
	REKENTHALER TECHNOLOGY ASSOC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	49
	REMCO HYDRAULICS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	49
	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other Defense-Exploratory Development	150
			USAF	RDTE/Other Defense-Exploratory Development	448
	STATE TOTAL				598

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	50
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	283
	RESOURCE ENGRG & PLANNING	Texas	ARMY	RDTE/Other Defense-Exploratory Development	139
	REUSE INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	REVED INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	RICARDO ENGINEERING LIMITED	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development	70
	ROCHESTER INST OF TECHNOLOGY	New York	USAF	RDTE/Other Defense-Exploratory Development	30
	ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other Defense-Exploratory Development	531
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	2,106
		USAF	RDTE/Other Defense-Exploratory Development	2,215	
	STATE TOTAL				4,321
		Georgia	ARMY	RDTE/Other Defense-Exploratory Development	35,726
		Texas	NAVY	RDTE/Other Defense-Exploratory Development	344
	CONTRACTOR TOTAL				40,391
	ROCKWELL POWER SYSTEMS	Hawaii	USAF	RDTE/Other Defense-Exploratory Development	1,771
	ROHR INC	California	USAF	RDTE/Other Defense-Exploratory Development	40
	ROLLS-ROYCE INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	50
	RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	36
	ROOS INSTRUMENTS	California	ARMY	RDTE/Other Defense-Exploratory Development	42
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	1,400
	RUPPRECHT & PATASHNICK CO INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	125
	RUST COLLEGE	Miss	USAF	RDTE/Other Defense-Exploratory Development	182
	RUTGERS THE STATE UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	50
		USAF	RDTE/Other Defense-Exploratory Development	483	
	STATE TOTAL				533
	RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

S C S TELECOM INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	\$	101
S D-SCICON PLC	California	ARMY	RDTE/Other Defense-Exploratory Development		53
S F A INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		1,491
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		93
		NAVY	RDTE/Other Defense-Exploratory Development		655
STATE TOTAL					748
CONTRACTOR TOTAL					62
	Penn	NAVY	RDTE/Other Defense-Exploratory Development		2,301
S K W CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		133
S S G INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		201
SABBAGH ASSOCIATES INC	Indiana	ARMY	RDTE/Other Defense-Exploratory Development		52
SAPHIKON INC	N.H.	USAF	RDTE/Other Defense-Exploratory Development		165
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development		48
SCHAFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		429
		NAVY	RDTE/Other Defense-Exploratory Development		76
STATE TOTAL					505
SCHMIDT INSTRUMENTS	Texas	ARMY	RDTE/Other Defense-Exploratory Development		103
SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		400
SCI TECH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		786
SCIENCE & ENGINEERING ASSOC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		100
	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		689
CONTRACTOR TOTAL					789
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,329
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		980
	California	ARMY	RDTE/Other Defense-Exploratory Development		30,801

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$	30
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AD92 (CONTINUED)

	STATE TOTAL	NAVY	RDTE/Other Defense-Exploratory Development		30,831	109
	D.C.	NAVY	RDTE/Other Defense-Exploratory Development			703
	Nevada	ARMY	RDTE/Other Defense-Exploratory Development			2,226
	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development			1,638
	Ohio	USAF	RDTE/Other Defense-Exploratory Development			350
	Penn	ARMY	RDTE/Other Defense-Exploratory Development			17,927
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development			59
		NAVY	RDTE/Other Defense-Exploratory Development			964
		USAF	RDTE/Other Defense-Exploratory Development			18,949
	STATE TOTAL				55,786	897
CONTRACTOR TOTAL						1,529
SCIENCE HORIZONS INC	California	ARMY	RDTE/Other Defense-Exploratory Development			50
SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Other Defense-Exploratory Development			37
SCIENTIFIC APLICAT RES ASSOC	California	ARMY	RDTE/Other Defense-Exploratory Development			90
SCIENTIFIC BALLOON SYS	Florida	NAVY	RDTE/Other Defense-Exploratory Development			118
SCIENTIFIC STUDIES	Florida	USAF	RDTE/Other Defense-Exploratory Development			164
SCIENTIFIC SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development			44
SEARCH TECHNOLOGY INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development			50
SECURITY BUILDINGS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development			788
SEGUE CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development			50
SELECT SYSTEMS ANALYSIS	California	ARMY	RDTE/Other Defense-Exploratory Development			50
SENSIS CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development			85
SENSORS UNLIMITED INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development			
SEPARATION SYSTEMS TECH INC	California	ARMY	RDTE/Other Defense-Exploratory Development			

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD92 (CONTINUED)

SESCO CORP	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	\$ 49
SETS TECHNOLOGY INC	Hawaii	ARMY	RDTE/Other	Defense-Exploratory Development	176
SIERRACIN CORPORATION	California	USAF	RDTE/Other	Defense-Exploratory Development	65-
SIGMA DYNAMICS CORP	Penn	ARMY	RDTE/Other	Defense-Exploratory Development	50
SIGNAL CORP	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	607
SIGNAL PROCESSING TECHNOLOGY	California	ARMY	RDTE/Other	Defense-Exploratory Development	314
SILICON DESIGNS INC	Washington	ARMY	RDTE/Other	Defense-Exploratory Development	151
SIMULATION & SOFTWARE ENG	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	48
SIMULATION TECHNOLOGIES	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	1,094
SOCIETY OF AUTO ENGINEERS	Penn	USAF	RDTE/Other	Defense-Exploratory Development	90
SOFTWARE A AND E	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	202
SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	150
SOFTWARE ENGINEERING & TECHN	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	50
SOFTWARE OPTIONS INC	Mass	USAF	RDTE/Other	Defense-Exploratory Development	210
SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY USAF	RDTE/Other	Defense-Exploratory Development	52 501
	STATE TOTAL				553
SOHAR INCORPORATED	California	USAF	RDTE/Other	Defense-Exploratory Development	55
SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	600
SONALYSTS INC	Conn	NAVY	RDTE/Other	Defense-Exploratory Development	2,000
	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	131
CONTRACTOR TOTAL					2,131
SONETECH CORPORATION	N.H.	USAF	RDTE/Other	Defense-Exploratory Development	152
SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other	Defense-Exploratory Development	919

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CONTRACTOR TOTAL		Ohio	USAF	RDTE/Other Defense-Exploratory Development	\$
SOUTHERN METHODIST UNIVERSITY		Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	277 1,196 1,003 265
STATE TOTAL					
SOUTHERN RESEARCH INSTITUTE		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,048
SOUTHERN RESEARCH TECHNOLOGIES		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	480
SOUTHERN UNIV AG MECH COLLEGE		Louisiana	USAF	RDTE/Other Defense-Exploratory Development	108
SOUTHWEST RESEARCH INSTITUTE		Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	371 414 785
STATE TOTAL					
SOUTHWESTERN OH CNCL		Ohio	USAF	RDTE/Other Defense-Exploratory Development	517
SPACE COMPUTER CORP		California	NAVY	RDTE/Other Defense-Exploratory Development	140
SPACEBORNE INC		California	ARMY	RDTE/Other Defense-Exploratory Development	50
SPARTA INC		California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	54 105 158
STATE TOTAL					
SPECTRA DIODE LABORATORIES		California	ARMY	RDTE/Other Defense-Exploratory Development	259
SPECTRA SYSTEMS INC		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	94
SPECTRA TECHNOLOGY INC		Washington	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	299 71 371
STATE TOTAL					
SPECTROLAB INC		California	USAF	RDTE/Other Defense-Exploratory Development	70
SPIRE CORPORATION		Mass	ARMY	RDTE/Other Defense-Exploratory Development	97
SRI INTERNATIONAL		California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	6,747 190

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	CONTRACTOR TOTAL		USAF	RDTE/Other Defense-Exploratory Development	\$ 3,398
		STATE TOTAL			10,336
		New York	USAF	RDTE/Other Defense-Exploratory Development	108
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	30
					10,474
SRS TECHNOLOGIES		California	ARMY	RDTE/Other Defense-Exploratory Development	280
STANDISH INDUSTRIES INC		Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	2,238
STANFORD TELECOMMUNICATIONS		Virginia	USAF	RDTE/Other Defense-Exploratory Development	46
STANFORD UNIVERSITY		California	NAVY	RDTE/Other Defense-Exploratory Development	34-
		USAF	RDTE/Other Defense-Exploratory Development	423	
		STATE TOTAL			390
STATE UNIV OF NY STONY BROOK		New York	ARMY	RDTE/Other Defense-Exploratory Development	50
STEVENS INSTITUTE OF TECH		New Jersey	USAF	RDTE/Other Defense-Exploratory Development	99
STRAINOPTIC TECHNOLOGIES INC		Penn	ARMY	RDTE/Other Defense-Exploratory Development	240
STRATEGIC ANALYSIS INC		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	726
STRATEGIC FRAMEWORKS INC		California	ARMY	RDTE/Other Defense-Exploratory Development	50
STRATEGIC PLANNING INTERNATIONAL		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	'00
SUB MICRON TECHNOLOGY CORP		California	ARMY	RDTE/Other Defense-Exploratory Development	50
SUMBERG DAVID		New York	USAF	RDTE/Other Defense-Exploratory Development	50
SUNDSTRAND CORPORATION		California	ARMY	RDTE/Other Defense-Exploratory Development	1,135
		USAF	RDTE/Other Defense-Exploratory Development	98	
		STATE TOTAL			1,233
		Illinois	USAF	RDTE/Other Defense-Exploratory Development	394
					1,627
CONTRACTOR TOTAL					
SVERDRUP CORPORATION		Ohio	USAF	RDTE/Other Defense-Exploratory Development	128

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

SWERLING MANASSE & SMITH INC	California	ARMY	RDTE/Other	Defense-Exploratory Development	\$ 185
SYMETRIX CORPORATION	Colorado	ARMY	RDTE/Other	Defense-Exploratory Development	227
SYNECTICS CORP	Virginia	USAF	RDTE/Other	Defense-Exploratory Development	80
SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	1,343
SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other	Defense-Exploratory Development	3,076
SYRACUSE UNIVERSITY	New York	ARMY	RDTE/Other	Defense-Exploratory Development	40
		USAF	RDTE/Other	Defense-Exploratory Development	133
	STATE TOTAL				173
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	83
SYSTEM DYNAMICS INTERNATIONAL	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	8,179
	Florida	ARMY	RDTE/Other	Defense-Exploratory Development	236
CONTRACTOR TOTAL					8,415
SYSTEM ENGINEERING & DEV CORP	Maryland	USAF	RDTE/Other	Defense-Exploratory Development	200
SYSTEM PLANNING CORPORATION	Maryland	NAVY	RDTE/Other	Defense-Exploratory Development	97
	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	3,088
		NAVY	RDTE/Other	Defense-Exploratory Development	138
	STATE TOTAL				3,220
CONTRACTOR TOTAL					3,323
SYSTEM TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development	95
SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	100
SYSTEMS & TECHNOLOGY RESEARCH	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	244
SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Other	Defense-Exploratory Development	283
SYSTEMS ENGINEERING ASSOCIATES	California	USAF	RDTE/Other	Defense-Exploratory Development	225
SYSTEMS ENGINEERING SUPPORT CO	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	397
SYSTEMS INTEGRATION INC	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	286

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	560 223
		STATE TOTAL			783
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	7,093
		Texas	USAF	RDTE/Other Defense-Exploratory Development	997
	CONTRACTOR TOTAL				8,090
	SYSTEMS TECHNOLOGY INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 216
		STATE TOTAL			266
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,350
	T S C INC	California	USAF	RDTE/Other Defense-Exploratory Development	363
	TACAN CORPORATION	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	304 250 100
		STATE TOTAL			654
	TALLEY INDUSTRIES INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	1,331
	TANNER RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	54
	TASC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,605 811
		STATE TOTAL			2,416
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	470
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	588
	CONTRACTOR TOTAL				3,474
	TDA RESEARCH INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	250
	TECH REPS INCORPORATED	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	542
	TECHNICAL DIRECTIONS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	671

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	TECHNICAL IMAGING SERVICES	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	\$ 150
	TECHNICAL RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	400
	TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	154
	TECHNOLOGY INTERNATIONAL CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	44
	TECHNOLOGY INTGRN DEV GROUP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	49
	TECHNOLOGY LAB	Penn	NAVY	RDTE/Other Defense-Exploratory Development	97
	TECHNOLOGY SYSTEMS INC	Maine	ARMY	RDTE/Other Defense-Exploratory Development	54
	TECOLOTE RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	TEKTRONIX INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	6,543
	TELEDYNE INC	California	ARMY	RDTE/Other Defense-Exploratory Development	762
	TELEDYNE INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	3,314
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	349
			USAF	RDTE/Other Defense-Exploratory Development	244
	STATE TOTAL				593
	CONTRACTOR TOTAL				
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	375
					4,282
	TELEOS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	385
	TERA RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	48
	TERRA TEK INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	988
	TETRA CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	453
	TEXAS A & M RESEARCH FDN	Texas	ARMY	RDTE/Other Defense-Exploratory Development	119
			NAVY	RDTE/Other Defense-Exploratory Development	80
	STATE TOTAL				199
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Other Defense-Exploratory Development	6,066
			NAVY	RDTE/Other Defense-Exploratory Development	4,736

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	STATE TOTAL	USAF	RDTE/Other Defense-Exploratory Development	\$	4,313
TEXAS RESEARCH INTERNATIONAL	Florida	NAVY	RDTE/Other Defense-Exploratory Development		15,114
TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development		396
TEXTRON INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		710
THERMOTREX CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		772
	NAVY	RDTE/Other Defense-Exploratory Development		278	99
	STATE TOTAL				378
THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development		4,500
THIOLCOL CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		670
	Utah	ARMY	RDTE/Other Defense-Exploratory Development		150
	STATE TOTAL				820
CONTRACTOR TOTAL					50
TINI ALLOY COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		1,402
TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		2,215
TMA/EBERLINE	U.S. Minor	ARMY	RDTE/Other Defense-Exploratory Development		4,120
TORRANCE ADVANCED METALS CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		50
TORREY SCIENCE AND TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development		555
TORRINGTON COMPANY THE	Conn	USAF	RDTE/Other Defense-Exploratory Development		1,533
TOYON RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		250
TPL COMMUNICATIONS	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		60
TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development		115
	USAF	RDTE/Other Defense-Exploratory Development		175	
	STATE TOTAL				50
CONTRACTOR TOTAL	Utah	USAF	RDTE/Other Defense-Exploratory Development		225

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AD92 (CONTINUED)					
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	\$ 253
	TRANS SCIENCE CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	527
	TRANS-SCIENCE CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	100
			NAVY	RDTE/Other Defense-Exploratory Development	202
		STATE TOTAL			302
	TRANSDUCER RESEARCH INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	229
	TRICOR SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	80
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	164
	TRIFID CORPORATION	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	253
	TRIQUINT SEMICONDUCTOR INC	Oregon	USAF	RDTE/Other Defense-Exploratory Development	1,527
	TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Exploratory Development	151
	TRUSTED INFORMATION SYSTEMS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,318
			NAVY	RDTE/Other Defense-Exploratory Development	99
			USAF	RDTE/Other Defense-Exploratory Development	1,532
		STATE TOTAL			3,949
	TRUSTEES COLUMBIA UNIV	New York	ARMY	RDTE/Other Defense-Exploratory Development	1,068
			USAF	RDTE/Other Defense-Exploratory Development	135
		STATE TOTAL			1,203
	TRW INC	California	ARMY	RDTE/Other Defense-Exploratory Development	8,222
			NAVY	RDTE/Other Defense-Exploratory Development	394
			USAF	RDTE/Other Defense-Exploratory Development	1,632
		STATE TOTAL			10,248
	TTL TECHNIQUES	Penn	ARMY	RDTE/Other Defense-Exploratory Development	300
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Other Defense-Exploratory Development	45
	U B C INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	50
	U S COMPOSITES CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	290
	UES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	4,441

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AD92 (CONTINUED)

ULTRAMET	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	249
ULTRASYSTEMS WESTERN CONSTRS	California	USAF	RDTE/Other Defense-Exploratory Development		135-
UNIAX CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		55
UNIQUE ELECTRONICS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		49
UNISTRY ASSOCIATES	Penn	ARMY	RDTE/Other Defense-Exploratory Development		50
UNITED INTERNATIONAL ENGRG	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		1,702
UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development		300
UNITED SEAL & RUBBER CO INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		1,610
UNITED SIGNALS & SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		49
UNITED STATES DEPT OF ENERGY	New Mexico	NAVY	RDTE/Other Defense-Exploratory Development		100
UNITED TECHNOLOGIES CORP	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		708 675
	STATE TOTAL				1,384
	Conn	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		300 1,196
	STATE TOTAL				1,496
	Florida	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		605 4,284
	STATE TOTAL				4,889
CONTRACTOR TOTAL					7,768
UNIV OF MARYLAND COLLEGE PARK	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		323
UNIVERSAL ANALYTICS INC	California	USAF	RDTE/Other Defense-Exploratory Development		300
UNIVERSAL SENSORS INC	Louisiana	ARMY	RDTE/Other Defense-Exploratory Development		100
UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development		2,032
UNIVERSITY NC AT CHAPEL HILL	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development		47

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
			USAF	RDTE/Other Defense-Exploratory Development	\$ 150
		STATE TOTAL			197
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,935
	UNIVERSITY OF ARIZONA	Arizona	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	173 67
		STATE TOTAL			240
	UNIVERSITY OF CALIFORNIA	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	652 2,323 851
		STATE TOTAL			3,826
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Exploratory Development	210
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Other Defense-Exploratory Development	355
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	100
	UNIVERSITY OF DAYTON	Arizona	USAF	RDTE/Other Defense-Exploratory Development	4,053
		Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	310 9,691
		STATE TOTAL			10,001
	CONTRACTOR TOTAL				14,053
	UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Other Defense-Exploratory Development	75
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Defense-Exploratory Development	52
	UNIVERSITY OF HAWAII	Hawaii	NAVY	RDTE/Other Defense-Exploratory Development	114
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Other Defense-Exploratory Development	282
	UNIVERSITY OF IOWA THE	Iowa	USAF	RDTE/Other Defense-Exploratory Development	51
	UNIVERSITY OF KANSAS	Kansas	USAF	RDTE/Other Defense-Exploratory Development	50
	UNIVERSITY OF KY RESCH FDTN	Kentucky	USAF	RDTE/Other Defense-Exploratory Development	205
	UNIVERSITY OF MARYLAND SYSTEM	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	1,147

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AD92 (CONTINUED)

	USAF	RDTE/Other Defense-Exploratory Development	\$
UNIVERSITY OF MASSACHUSETTS	STATE TOTAL		252
	Mass	RDTE/Other Defense-Exploratory Development	1,399
		RDTE/Other Defense-Exploratory Development	94
		RDTE/Other Defense-Exploratory Development	795
	STATE TOTAL		889
UNIVERSITY OF MICHIGAN	USAF	RDTE/Other Defense-Exploratory Development	361
UNIVERSITY OF MINNESOTA	NAVY	RDTE/Other Defense-Exploratory Development	50
UNIVERSITY OF NEW MEXICO	ARMY	RDTE/Other Defense-Exploratory Development	669
UNIVERSITY OF NORTH TEXAS	NAVY	RDTE/Other Defense-Exploratory Development	100
UNIVERSITY OF NOTRE DAME	USAF	RDTE/Other Defense-Exploratory Development	38
UNIVERSITY OF SOUTHERN CALIF	ARMY	RDTE/Other Defense-Exploratory Development	3,090
	USAF	RDTE/Other Defense-Exploratory Development	4,174
	STATE TOTAL		7,264
UNIVERSITY OF TEXAS ARLINGTON	ARMY	RDTE/Other Defense-Exploratory Development	415
UNIVERSITY OF TEXAS SAN ANTONI	ARMY	RDTE/Other Defense-Exploratory Development	35
UNIVERSITY OF THE DIST COLUMBIA	ARMY	RDTE/Other Defense-Exploratory Development	64
UNIVERSITY OF TORONTO	USAF	RDTE/Other Defense-Exploratory Development	90
UNIVERSITY OF VIRGINIA	ARMY	RDTE/Other Defense-Exploratory Development	100
UNIVERSITY OF WASHINGTON	NAVY	RDTE/Other Defense-Exploratory Development	335
UNIVERSITY OF WISCONSIN SYSTEM	USAF	RDTE/Other Defense-Exploratory Development	120
UNIVERSITY SYSTEMS INC	ARMY	RDTE/Other Defense-Exploratory Development	66-
USER TECHNOLOGY ASSOCIATES	ARMY	RDTE/Other Defense-Exploratory Development	963
UTAH STATE UNIVERSITY	ARMY	RDTE/Other Defense-Exploratory Development	1,325
UTD INC	ARMY	RDTE/Other Defense-Exploratory Development	1,298
UTEK SYSTEMS INC	ARMY	RDTE/Other Defense-Exploratory Development	50

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AD92 (CONTINUED)

UWOHALI INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	\$	1,209
	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		104
CONTRACTOR TOTAL					1,313
VALLES DANIEL H & ASSOCIATES	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		50
VAN EVERY & ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		50
VARI L COMPANY INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		145
VARIAN ASSOCIATES INC	California	USAF	RDTE/Other Defense-Exploratory Development		200
	Mass	USAF	RDTE/Other Defense-Exploratory Development		270
CONTRACTOR TOTAL					470
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		323
VECTOR RESEARCH INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		52
VEDA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Exploratory Development		123
VEDA INTERNATIONAL INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development		221
VENDELIN ENGINEERING INC	California	ARMY	RDTE/Other Defense-Exploratory Development		50
VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		100
VIRGINIA PLYTECHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		60
		NAVY	RDTE/Other Defense-Exploratory Development		247
STATE TOTAL					307
VIRTUAL IMAGE LABORATORIES, IN	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		59
VISIDYNE INC	California	ARMY	RDTE/Other Defense-Exploratory Development		2,322
VOUGHT AIRCRAFT	Texas	ARMY	RDTE/Other Defense-Exploratory Development		198-
		USAF	RDTE/Other Defense-Exploratory Development		200
STATE TOTAL					2
VSE CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		129
WACKENHUT CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		163

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

WAGNER DANIEL H ASSOCIATES	Penn	ARMY	RDTE/Other Defense-Exploratory Development	\$	226
WALCOFF & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		80
WASHINGTON STATE UNIVERSITY	Washington	ARMY	RDTE/Other Defense-Exploratory Development		352
		USAF	RDTE/Other Defense-Exploratory Development		92
	STATE TOTAL				444
WASHINGTON UNIVERSITY	Missouri	USAF	RDTE/Other Defense-Exploratory Development		220
WEDEVEN ASSOCIATES INC	Penn	USAF	RDTE/Other Defense-Exploratory Development		250
WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		882
	New York	ARMY	RDTE/Other Defense-Exploratory Development		2,417
CONTRACTOR TOTAL					3,299
WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development		2,116
WESTINGHOUSE ELECTRIC CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		1,649
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		79
		NAVY	RDTE/Other Defense-Exploratory Development		1,170
		USAF	RDTE/Other Defense-Exploratory Development		3,797
	STATE TOTAL				5,046
	Penn	ARMY	RDTE/Other Defense-Exploratory Development		150
		NAVY	RDTE/Other Defense-Exploratory Development		716
		USAF	RDTE/Other Defense-Exploratory Development		330
	STATE TOTAL				1,196
CONTRACTOR TOTAL					7,891
WGA	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		343
WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		543
		USAF	RDTE/Other Defense-Exploratory Development		643
	STATE TOTAL				1,186
WOODS HOLE OCEANOGRAPHIC INST	Mass	NAVY	RDTE/Other Defense-Exploratory Development		540
WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Other Defense-Exploratory Development		150

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AD92 (CONTINUED)

WOOLLAM J A CO	Nebraska	ARMY	RDTE/Other Defense-Exploratory Development	\$	591
WORCESTER POLYTECHNIC INSTITUT	Mass	USAF	RDTE/Other Defense-Exploratory Development		62
WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development		62
XEMET INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development		60
XEROX CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		8,923
	New York	ARMY	RDTE/Other Defense-Exploratory Development		474
CONTRACTOR TOTAL					9,396
XINOTECH RESEARCH INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development		102
YELLOWSTONE ENVMTL SCIENCE	Montana	ARMY	RDTE/Other Defense-Exploratory Development		50
ZENITH ELECTRONICS CORPORATION	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		2,000
ZENON ENVIRONMENTAL INC	CANADA	ARMY	RDTE/Other Defense-Exploratory Development		85
ZERNOW TECHNICAL SERVICES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		212
ZEXTRON INC	California	ARMY	RDTE/Other Defense-Exploratory Development		376
ZYBRON INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		177
R&D TOTAL					1,343,877
AD93 3M	Minnesota	NAVY	RDTE/Other Defense-Advanced Development		220
A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development		100
ACCUDYNE CORP	Wisconsin	ARMY	RDTE/Other Defense-Advanced Development		210
ACUREX CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development		2,264
ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Advanced Development		100
ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Defense-Advanced Development		312
	USAF	USAF	RDTE/Other Defense-Advanced Development		600
STATE TOTAL					913
ADVANCED ENGINES DEVELOPMENT	Wisconsin	NAVY	RDTE/Other Defense-Advanced Development		1,350

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AD93 (CONTINUED)					
	ADVANCED RESOURCE TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,965
	ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other Defense-Advanced Development	49
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	91
	AEDAR CORPORATION INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	182
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	250
	AEROFLEX SYSTEMS CORP	Virginia	NAVY	RDTE/Other Defense-Advanced Development	332
	AEROJET	California	NAVY	RDTE/Other Defense-Advanced Development	150
			USAF	RDTE/Other Defense-Advanced Development	320-
	STATE TOTAL				170-
	AIR SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Advanced Development	524
	ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Other Defense-Advanced Development	277
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Defense-Advanced Development	1,750
	ALLIED SIGNAL INC	Arizona	USAF	RDTE/Other Defense-Advanced Development	862
		New Jersey	NAVY	RDTE/Other Defense-Advanced Development	200
	CONTRACTOR TOTAL				1,062
	AMBER ENGINEERING INC	California	ARMY	RDTE/Other Defense-Advanced Development	2,146
	AMERICAN ELECTRONICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	50
	AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	155
	AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	466
	AMERINEX ARTFL INTELLIGENCE	Mass	ARMY	RDTE/Other Defense-Advanced Development	583
	ANALYSIS & TECHNOLOGY INC	Miss	NAVY	RDTE/Other Defense-Advanced Development	30
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	12,120
	ANDREW CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	325
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Advanced Development	159

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)				
ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	\$ 4,220
ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	550
ARIST CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,720
ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Advanced Development	35
ASTRALUX	Colorado	NAVY	RDTE/Other Defense-Advanced Development	50
ASTROSYSTEMS INC	Delaware	USAF	RDTE/Other Defense-Advanced Development	100
ATLANTIC RESEARCH CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	404
	Virginia	USAF	RDTE/Other Defense-Advanced Development	174
CONTRACTOR TOTAL				578
AUSTIN RESEARCH ASSOCIATES	Texas	NAVY	RDTE/Other Defense-Advanced Development	50
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Advanced Development	379
AVASEM CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	210
AVCO CORPORATION	Conn	USAF	RDTE/Other Defense-Advanced Development	487
B K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	784
B-K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	34
BABCOCK & WILCOX COMPANY THE	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,700-
BAIRD CORPORATION	Mass	ARMY	RDTE/Other Defense-Advanced Development	1,017
BALL CORPORATION	Colorado	USAF	RDTE/Other Defense-Advanced Development	2,761
BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	174
BASE TEN SYSTEMS INC	New Jersey	ARMY	RDTE/Other Defense-Advanced Development	119
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Defense-Advanced Development	3,887 150
STATE TOTAL				4,036
SDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	28,848

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AD93 (CONTINUED)

		USAF	RDTE/Other Defense-Advanced Development	\$	674
	STATE TOTAL				29,522
BDM MANAGEMENT SERVICES CO	Virginia	ARMY	RDTE/Other Defense-Advanced Development		15,096
BETA ANALYTICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development		2,736
BLACK & DECKER CORPORATION	Nebraska	USAF	RDTE/Other Defense-Advanced Development		515
BMH ASSOCIATES INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Advanced Development		137
BOEING AEROSPACE OPERATIONS	Washington	USAF	RDTE/Other Defense-Advanced Development		650
BOEING COMPANY THE	Washington	NAVY	RDTE/Other Defense-Advanced Development		43
		USAF	RDTE/Other Defense-Advanced Development		1,235
	STATE TOTAL				1,278
BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other Defense-Advanced Development		2,295
	Mass	ARMY	RDTE/Other Defense-Advanced Development		140
		NAVY	RDTE/Other Defense-Advanced Development		3,150
		USAF	RDTE/Other Defense-Advanced Development		3,859
	STATE TOTAL				7,149
CONTRACTOR TOTAL					9,444
800Z ALLEN & HAMILTON INC	California	ARMY	RDTE/Other Defense-Advanced Development		150
	Maryland	ARMY	RDTE/Other Defense-Advanced Development		8,830
	Virginia	ARMY	RDTE/Other Defense-Advanced Development		1,787
					10,767
BOSTON UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Advanced Development		2,917
BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development		1,787
C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Other Defense-Advanced Development		60
C A E INDUSTRIES LTD	Arizona	USAF	RDTE/Other Defense-Advanced Development		2,353
CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development		1,411
CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Other Defense-Advanced Development		626

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Defense-Advanced Development	659
	CENTRE NATIONAL D ETUDES SPAT	FRANCE	NAVY	RDTE/Other Defense-Advanced Development	923
	CERAMPHYSICS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	60
	CHESIL CONSULTANTS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	70
	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Other Defense-Advanced Development	90
	CLARKSON ENGINEERING	Texas	USAF	RDTE/Other Defense-Advanced Development	73
	CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Other Defense-Advanced Development	122
	COGENTEX INC	New York	USAF	RDTE/Other Defense-Advanced Development	150
	COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Defense-Advanced Development	236
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	440
	COMPACT SOFTWARE INC	New Jersey	USAF	RDTE/Other Defense-Advanced Development	96
	COMPREHENSIVE TECH INTL	Virginia	ARMY	RDTE/Other Defense-Advanced Development	13,778
	CORTANA CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	33,403
	CREARE INC	N.H.	USAF	RDTE/Other Defense-Advanced Development	69
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Advanced Development	100
	CSA ENGINEERING INC	California	USAF	RDTE/Other Defense-Advanced Development	415
		Ohio	USAF	RDTE/Other Defense-Advanced Development	248
	CONTRACTOR TOTAL				663
	CUDO TECHNOLOGIES LTD	Kentucky	USAF	RDTE/Other Defense-Advanced Development	57
	DAMES & MOORE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,680
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Advanced Development	36
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Advanced Development	2,150
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other Defense-Advanced Development	1,511
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	859

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AD93 (CONTINUED)					
	DEPOSITION SCIENCES INC	California	USAF	RDTE/Other Defense-Advanced Development	170
	DICHROMA INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	415
	DIRECTED TECHNOLOGIES INC	Virginia	USAF	RDTE/Other Defense-Advanced Development	400
	DORNIER GMBH	GERMANY	ARMY	RDTE/Other Defense-Advanced Development	1,753
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	2,733
			USAF	RDTE/Other Defense-Advanced Development	407
			STATE TOTAL		3,140
	DUN & BRADSTREET INC	New York	USAF	RDTE/Other Defense-Advanced Development	388
	DUPONT AEROSPACE CO INC	California	USAF	RDTE/Other Defense-Advanced Development	36
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	370
	DYNAMICS RESEARCH CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	913
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,265
	CONTRACTOR TOTAL				2,178
	DYNATHERM CORPORATION	Maryland	USAF	RDTE/Other Defense-Advanced Development	67
	DYNACORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	103
	DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	350
	EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Advanced Development	298
		Missouri	USAF	RDTE/Other Defense-Advanced Development	100
	CONTRACTOR TOTAL				398
	EASTMAN KODAK COMPANY	New York	USAF	RDTE/Other Defense-Advanced Development	133
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	205
	ELBIT COMPUTERS LTD	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	341
	ELDEC CORPORATION	Washington	USAF	RDTE/Other Defense-Advanced Development	1,669
	ELECTROCHEM INC	Mass	USAF	RDTE/Other Defense-Advanced Development	56

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Defense-Advanced Development	211
	ELECTRONICS DEVELOPMENT CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	78
	EMCORE CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	50
	ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development	128
	ENVIRONMENTAL RES INST OF MICH	Michigan	ARMY	RDTE/Other Defense-Advanced Development	1,945
	ENVIRONMENTAL TECHNOLOGIES GRO	Maryland	ARMY	RDTE/Other Defense-Advanced Development	3,700
	EPION CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development	125
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development	619
	EXCELCO DEVELOPMENT INC	New York	NAVY	RDTE/Other Defense-Advanced Development	176
	EXECUTIVE RESOURCE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Advanced Development	208
	FAIRCHILD SPACE & DEF CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	9,090
	FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Other Defense-Advanced Development	296-
	FERRANTI INSTRUMENTATION LTD	UNITED KIN	ARMY	RDTE/Other Defense-Advanced Development	151
	FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Defense-Advanced Development	225
	FLORIDA MAXIMA CORP	Florida	NAVY	RDTE/Other Defense-Advanced Development	40
	FMC CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	2,087
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Advanced Development	195
	GEC MARCONI CO LTD	California	NAVY	RDTE/Other Defense-Advanced Development	304
	GENERAL ATOMICS	California	USAF	RDTE/Other Defense-Advanced Development	646
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	1,126
			USAF	RDTE/Other Defense-Advanced Development	7,255
	STATE TOTAL				8,381
		Conn	ARMY	RDTE/Other Defense-Advanced Development	529
		Texas	USAF	RDTE/Other Defense-Advanced Development	657

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AD93 (CONTINUED)					
CONTRACTOR TOTAL					
GENERAL ELECTRIC COMPANY					
	Virginia	ARMY	RDTE/Other Defense-Advanced Development		81
	Arizona	USAF	RDTE/Other Defense-Advanced Development		9,647
	New Jersey	ARMY	RDTE/Other Defense-Advanced Development		2,382
		USAF	RDTE/Other Defense-Advanced Development		736
	STATE TOTAL				2,859
	New York	USAF	RDTE/Other Defense-Advanced Development		3,596
	Ohio	USAF	RDTE/Other Defense-Advanced Development		1,726
	Penn	ARMY	RDTE/Other Defense-Advanced Development		2,001
		USAF	RDTE/Other Defense-Advanced Development		85,070
	STATE TOTAL				459
					85,529
					95,234
CONTRACTOR TOTAL					
GENERAL MOTORS CORPORATION					
	Indiana	USAF	RDTE/Other Defense-Advanced Development		397
	California	ARMY	RDTE/Other Defense-Advanced Development		300
		NAVY	RDTE/Other Defense-Advanced Development		50
	STATE TOTAL				350
	Mass	ARMY	RDTE/Other Defense-Advanced Development		200
	D.C.	NAVY	RDTE/Other Defense-Advanced Development		140
	Virginia	ARMY	RDTE/Other Defense-Advanced Development		80
		USAF	RDTE/Other Defense-Advanced Development		75
	STATE TOTAL				155
	New York	USAF	RDTE/Other Defense-Advanced Development		720
	California	USAF	RDTE/Other Defense-Advanced Development		99
	Maryland	USAF	RDTE/Other Defense-Advanced Development		267
	Mass	USAF	RDTE/Other Defense-Advanced Development		500
	CONTRACTOR TOTAL				866

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development	842
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,885
	HAZELTINE CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	6,188
	HNC INC	California	USAF	RDTE/Other Defense-Advanced Development	50
	HONEYWELL INC	Florida	USAF	RDTE/Other Defense-Advanced Development	800
		Minnesota	ARMY	RDTE/Other Defense-Advanced Development	2,442
			USAF	RDTE/Other Defense-Advanced Development	1,068
				STATE TOTAL	3,510
				CONTRACTOR TOTAL	4,310
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Defense-Advanced Development	499
			NAVY	RDTE/Other Defense-Advanced Development	240
			USAF	RDTE/Other Defense-Advanced Development	5,852
				STATE TOTAL	6,592
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Other Defense-Advanced Development	756
	I-NET INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,021
	ICI AMERICAS INC	Indiana	ARMY	RDTE/Other Defense-Advanced Development	94
	IGC ADVANCED	Conn	USAF	RDTE/Other Defense-Advanced Development	50
	IMDT	Virginia	ARMY	RDTE/Other Defense-Advanced Development	50
	IMO INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Advanced Development	1,455
	INFORMATION EXTRCT & TRANS INC	California	ARMY	RDTE/Other Defense-Advanced Development	100
	INFORMATION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	37
		Ohio	USAF	RDTE/Other Defense-Advanced Development	88
				CONTRACTOR TOTAL	124
	INTEGRATED APPLIED PHYSICS	California	NAVY	RDTE/Other Defense-Advanced Development	49
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	2,840
		Ohio	USAF	RDTE/Other Defense-Advanced Development	84

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AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	INTERNATIONAL BUS MCHS CORP	Penn	NAVY	RDTE/Other Defense-Advanced Development	274
	INTERNATIONAL MICROSPACE INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	3,198
	INTERNATIONAL SOFTWARE SYSTEMS	Virginia	ARMY	RDTE/Other Defense-Advanced Development	35,500
	INTL SCIENTIFIC PRODUCTS	Texas	USAF	RDTE/Other Defense-Advanced Development	50
	ISRAELI MINISTRY OF DEFENSE	California	ARMY	RDTE/Other Defense-Advanced Development	1,963
	ISREALI MINISTRY OF DEFENSE	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	7,063
	JAMIESON SCIENCE & ENGINEERING	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	524
	JAYCOR	Maryland	ARMY	RDTE/Other Defense-Advanced Development	795
	JBS TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,700
	KAISER OPTICAL SYSTEMS INC	California	NAVY	RDTE/Other Defense-Advanced Development	940
	KAMAN AEROSPACE CORPORATION	Michigan	USAF	RDTE/Other Defense-Advanced Development	112
		Arizona	ARMY	RDTE/Other Defense-Advanced Development	279
		Conn	ARMY	RDTE/Other Defense-Advanced Development	503
	CONTRACTOR TOTAL				475
	KAMAN SCIENCES CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	978
	KEEN DAVID A DBA SIGNATURE PRO	Alabama	ARMY	RDTE/Other Defense-Advanced Development	73
	KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Advanced Development	149
	KNOWLEDGE BASED SYSTEM	Texas	USAF	RDTE/Other Defense-Advanced Development	958
	KNOWLEDGE SYSTEMS CONCEPTS	New York	USAF	RDTE/Other Defense-Advanced Development	746
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Other Defense-Advanced Development	500
	KOR ELECTRONICS INC	California	NAVY	RDTE/Other Defense-Advanced Development	579
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Advanced Development	411
	KTAADN INC	Mass	USAF	RDTE/Other Defense-Advanced Development	747
					183

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

LANGUAGE SYSTEMS INC	California	USAF	RDTE/Other	Defense-Advanced Development	\$ 152
LAWRENCE ASSOCIATES INC	Ohio	USAF	RDTE/Other	Defense-Advanced Development	360
LITTLE ARTHUR D INC	Mass	NAVY	RDTE/Other	Defense-Advanced Development	190
LITTON SYSTEMS INC	Mass	USAF	RDTE/Other	Defense-Advanced Development	2,475
LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Other	Defense-Advanced Development	6,486
	California	ARMY	RDTE/Other	Defense-Advanced Development	3,630
		NAVY	RDTE/Other	Defense-Advanced Development	115
		USAF	RDTE/Other	Defense-Advanced Development	55
STATE TOTAL					3,800
CONTRACTOR TOTAL					
LOCKHEED SANDERS INC	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	500
LOGICON INC	N.H.	ARMY	RDTE/Other	Defense-Advanced Development	10,786
LORAL AEROSPACE CORP	Ohio	USAF	RDTE/Other	Defense-Advanced Development	96
LORAL CORP	California	ARMY	RDTE/Other	Defense-Advanced Development	3,673
LORAL VOUGHT SYSTEMS	Ohio	ARMY	RDTE/Other	Defense-Advanced Development	225
	Texas	ARMY	RDTE/Other	Defense-Advanced Development	9,099
		NAVY	RDTE/Other	Defense-Advanced Development	40,995
					211
STATE TOTAL					41,206
M R J INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	2,522
		USAF	RDTE/Other	Defense-Advanced Development	48
STATE TOTAL					2,570
MAGNAVOX GOVT & INDSTR ELCTR	Indiana	ARMY	RDTE/Other	Defense-Advanced Development	255
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Other	Defense-Advanced Development	49
MARINE ACOUSTICS	Rhode Isl	NAVY	RDTE/Other	Defense-Advanced Development	815
MARQUARDT COMPANY THE	California	USAF	RDTE/Other	Defense-Advanced Development	140
MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other	Defense-Advanced Development	296,896

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	MCDONNELL DOUGLAS CORPORATION				
		STATE TOTAL			
		Maryland	USAF	RDTE/Other Defense-Advanced Development	\$ 157
					297,053
		California	ARMY	RDTE/Other Defense-Advanced Development	112
					297,165
		Missouri	USAF	RDTE/Other Defense-Advanced Development	43,257
					857
					44,114
	CONTRACTOR TOTAL				275
	MCDONNELL DOUGLAS MSL SYS CO				2,451
	MCDONNELL DOUGLAS SPACE SYS CO				25
	MECHANICAL TECHNOLOGY INC				203
	MENTOR TECHNOLOGIES INC				420
	MIDWEST SYSTEMS RESEARCH INC				346
	MINE SAFETY APPLIANCES CO				1,920
	MITSUBISHI HEAVY INDUSTRIES LT				297
	MOTIVAIR CORPORATION				315
	MT WILSON INSTITUTE				134
	NEWPORT NEWS SHPBLDING DRYDOCK				6,564
	NICHOLS RESEARCH CORPORATION				919
					158
					7,641
	CONTRACTOR TOTAL				5,569
	NICHOLSON & ASSOCIATES INC				115
	NIGHT VISION CORPORATION				4,440
	NORDEN SYSTEMS INC				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	60
	NORTHEAST PHOTO SCIENCES	N.H.	USAF	RDTE/Other Defense-Advanced Development	50
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	1,192
	NYSENET INC	New York	USAF	RDTE/Other Defense-Advanced Development	1,336
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Other Defense-Advanced Development	50
	ODETICS INC	California	ARMY	RDTE/Other Defense-Advanced Development	200
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Advanced Development	323
	OPTICOMP CORPORATION	Nevada	NAVY	RDTE/Other Defense-Advanced Development	281
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Defense-Advanced Development	45
	OPTIMIZATION TECHNOLOGY INC	Alabama	USAF	RDTE/Other Defense-Advanced Development	30
	ORBITAL SCIENCES CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	705
	ORION INTERNATIONAL TECH	New Mexico	USAF	RDTE/Other Defense-Advanced Development	582
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Advanced Development	2,183
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Advanced Development	153
			NAVY	RDTE/Other Defense-Advanced Development	400
			STATE TOTAL		553
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	1,692
	PARAMAX SYSTEMS CORP	Minnesota	USAF	RDTE/Other Defense-Advanced Development	2,052
	PARKER DRILLING COMPANY	Texas	ARMY	RDTE/Other Defense-Advanced Development	446
	PHOTON RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Advanced Development	1,300
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	451
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	2,400
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Advanced Development	2,037
	PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Other Defense-Advanced Development	125

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

CONTRACTOR TOTAL					\$	3,095
POLAROID CORPORATION	Virginia	NAVY	RDTE/Other	Defense-Advanced Development		3,220
PRINCETON UNIVERSITY	Mass	USAF	RDTE/Other	Defense-Advanced Development		240
R J O ENTERPRISES INC	New Jersey	USAF	RDTE/Other	Defense-Advanced Development		60
RADIX SYSTEMS INC	Maryland	ARMY	RDTE/Other	Defense-Advanced Development		5,233
RAIL COMPANY	Maryland	ARMY	RDTE/Other	Defense-Advanced Development		196
RAVEN INC	Maryland	ARMY	RDTE/Other	Defense-Advanced Development		91
RAYTHEON COMPANY	Virginia	NAVY	RDTE/Other	Defense-Advanced Development		216
	Mass	ARMY	RDTE/Other	Defense-Advanced Development		235
		NAVY	RDTE/Other	Defense-Advanced Development		245
		USAF	RDTE/Other	Defense-Advanced Development		518
STATE TOTAL						998
CONTRACTOR TOTAL						100
RESEARCH TRIANGLE INSTITUTE	Rhode Isl	ARMY	RDTE/Other	Defense-Advanced Development		1,098
	N Carolina	ARMY	RDTE/Other	Defense-Advanced Development		100
		USAF	RDTE/Other	Defense-Advanced Development		298
STATE TOTAL						398
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other	Defense-Advanced Development		9,459
ROCHESTER PHOTONICS CORP	New York	USAF	RDTE/Other	Defense-Advanced Development		200
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Other	Defense-Advanced Development		3,514
ROCKWELL POWER SYSTEMS	Hawaii	USAF	RDTE/Other	Defense-Advanced Development		6,287
ROCKY RESEARCH	Nevada	USAF	RDTE/Other	Defense-Advanced Development		50
SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Other	Defense-Advanced Development		238
SCHAFER W J ASSOCIATES INC	Colorado	USAF	RDTE/Other	Defense-Advanced Development		127
	Mass	ARMY	RDTE/Other	Defense-Advanced Development		24,893

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

CONTRACTOR TOTAL

SCI TEC INC	New Jersey	USAF	RDTE/Other Defense-Advanced Development	\$	25,020
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Advanced Development		120
	Arizona	ARMY	RDTE/Other Defense-Advanced Development		154-
	California	ARMY	RDTE/Other Defense-Advanced Development		700
	California	ARMY	RDTE/Other Defense-Advanced Development		5,600
	NAVY	NAVY	RDTE/Other Defense-Advanced Development		987
	USAF	USAF	RDTE/Other Defense-Advanced Development		1,840
STATE TOTAL					8,428
	Minnesota	ARMY	RDTE/Other Defense-Advanced Development		200
	Ohio	USAF	RDTE/Other Defense-Advanced Development		459
	Virginia	ARMY	RDTE/Other Defense-Advanced Development		808
	NAVY	NAVY	RDTE/Other Defense-Advanced Development		4,484
STATE TOTAL					5,292
					14,924

CONTRACTOR TOTAL

SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Other Defense-Advanced Development		407
SCIENTIFIC TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Defense-Advanced Development		53
SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Advanced Development		50
SIGNAL PROCESSING TECHNOLOGY	California	NAVY	RDTE/Other Defense-Advanced Development		35
SIMULATION TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Advanced Development		100
SIPPICAN INC	Mass	NAVY	RDTE/Other Defense-Advanced Development		197
SOREQ NUCLEAR RESEARCH CENTER	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development		1,249
SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Advanced Development		405
SPACE APPLICATIONS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development		2,335
SPACE COMPUTER CORP	California	ARMY	RDTE/Other Defense-Advanced Development		77
	USAF	USAF	RDTE/Other Defense-Advanced Development		36
STATE TOTAL					113

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Advanced Development	\$ 47,920
	SPARTA INC	Alabama	USAF	RDTE/Other Defense-Advanced Development	1,797
		California	USAF	RDTE/Other Defense-Advanced Development	140
	CONTRACTOR TOTAL				1,937
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development	1,514
	SPECTROLAB INC	California	USAF	RDTE/Other Defense-Advanced Development	317
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Advanced Development	92
	SPIRE CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development	49
			USAF	RDTE/Other Defense-Advanced Development	50
	STATE TOTAL				99
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Advanced Development	1,280
			NAVY	RDTE/Other Defense-Advanced Development	1,441
			USAF	RDTE/Other Defense-Advanced Development	763
	STATE TOTAL				3,484
	SRS: TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Advanced Development	3,239
	STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Other Defense-Advanced Development	190
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Advanced Development	45-
	STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Other Defense-Advanced Development	1,039
	STERIODS LTD	Illinois	NAVY	RDTE/Other Defense-Advanced Development	49
	STONE & WEBSTER INCORPORATED	D.C.	ARMY	RDTE/Other Defense-Advanced Development	485
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	50
	SYNECTICS CORP	New York	USAF	RDTE/Other Defense-Advanced Development	2,020
	SYRACUSE UNIVERSITY	New York	USAF	RDTE/Other Defense-Advanced Development	210
	SYSTEM EXPLORATION INTL	Ohio	USAF	RDTE/Other Defense-Advanced Development	579
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	5,482
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,530

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AD93 (CONTINUED)

SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Other Defense-Advanced Development	\$	40
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Advanced Development		1,471
TASC	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		58,459 1,402
	STATE TOTAL				59,861
TECH INTERNATIONAL INC	Colorado	NAVY	RDTE/Other Defense-Advanced Development		248
TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development		600
TECHNOLOGY APPLICATIONS SVC CO	Florida	NAVY	RDTE/Other Defense-Advanced Development		118
TENNESSEE STATE UNIVERSITY	Tennessee	USAF	RDTE/Other Defense-Advanced Development		225
TETRA CORPORATION	New Mexico	NAVY	RDTE/Other Defense-Advanced Development		61
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		156 200 151
	STATE TOTAL				507
THERMACORE INC	Penn	USAF	RDTE/Other Defense-Advanced Development		571
THERMOTREX CORPORATION	California	NAVY	RDTE/Other Defense-Advanced Development		3,567
THIOLKOL CORPORATION	Alabama	NAVY	RDTE/Other Defense-Advanced Development		100
	Utah	NAVY	RDTE/Other Defense-Advanced Development		43
CONTRACTOR TOTAL					143
TINSLEY LABORATORIES INC	California	USAF	RDTE/Other Defense-Advanced Development		792
TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development		250
TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Advanced Development		641
TRACOR FLIGHT SYSTEMS INC	California	ARMY	RDTE/Other Defense-Advanced Development		139
TRUSTED INFORMATION SYSTEMS	Maryland	USAF	RDTE/Other Defense-Advanced Development		116
TRW INC	California	ARMY	RDTE/Other Defense-Advanced Development		126,219

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AD93 (CONTINUED)

	NAVY	RDTE/Other Defense-Advanced Development	\$	1,014
	USAF	RDTE/Other Defense-Advanced Development		228
STATE TOTAL				127,460
CONTRACTOR TOTAL	USAF	RDTE/Other Defense-Advanced Development		3,255
	USAF	RDTE/Other Defense-Advanced Development		130,715
UES INC	USAF	RDTE/Other Defense-Advanced Development		448
UNION CORPORATION	ARMY	RDTE/Other Defense-Advanced Development		180
UNITED KINGDOM MINISTRY OF DEF	ARMY	RDTE/Other Defense-Advanced Development		12,602
UNITED STATES DEPT INTERIOR	NAVY	RDTE/Other Defense-Advanced Development		100
UNITED STATES DEPT OF COMMERCE	NAVY	RDTE/Other Defense-Advanced Development		75
	NAVY	RDTE/Other Defense-Advanced Development		200
CONTRACTOR TOTAL	NAVY	RDTE/Other Defense-Advanced Development		275
UNITED TECHNOLOGIES CORP	NAVY	RDTE/Other Defense-Advanced Development		100
	NAVY	RDTE/Other Defense-Advanced Development		300
	USAF	RDTE/Other Defense-Advanced Development		869
STATE TOTAL				1,169
	USAF	RDTE/Other Defense-Advanced Development		8,951
	USAF	RDTE/Other Defense-Advanced Development		10,219
CONTRACTOR TOTAL	NAVY	RDTE/Other Defense-Advanced Development		60
UNIVERSITY OF ALASKA	ARMY	RDTE/Other Defense-Advanced Development		301
UNIVERSITY OF CALIFORNIA	NAVY	RDTE/Other Defense-Advanced Development		365
STATE TOTAL				666
UNIVERSITY OF COLORADO	USAF	RDTE/Other Defense-Advanced Development		125
UNIVERSITY OF DAYTON	USAF	RDTE/Other Defense-Advanced Development		1,027
UNIVERSITY OF FLORIDA	USAF	RDTE/Other Defense-Advanced Development		34
UNIVERSITY OF MARYLAND SYSTEM	NAVY	RDTE/Other Defense-Advanced Development		80

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AD93 (CONTINUED)					
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Defense-Advanced Development	\$ 500
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Other Defense-Advanced Development	125
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Other Defense-Advanced Development	58
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Advanced Development	20,572
	V P L RESEARCH INC	California	NAVY	RDTE/Other Defense-Advanced Development	56
	VANGUARD RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,143
	VEDA INTERNATIONAL INC	Virginia	USAF	RDTE/Other Defense-Advanced Development	1,651
	VER-VAL ENTERPRISES INC	Florida	ARMY	RDTE/Other Defense-Advanced Development	285
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Advanced Development	166
	VESTAR INC	California	NAVY	RDTE/Other Defense-Advanced Development	212
	VOUGHT AIRCRAFT	Texas	ARMY	RDTE/Other Defense-Advanced Development	11,850
	WAGNER DANIEL H ASSOCIATES	Penn	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	338 606
			STATE TOTAL		944
	WASHINGTON STATE UNIVERSITY	Washington	USAF	RDTE/Other Defense-Advanced Development	111
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	8,000 165
			STATE TOTAL		8,165
		Penn	USAF	RDTE/Other Defense-Advanced Development	425
	CONTRACTOR TOTAL				8,590
	WILLIAMSON & ASSOCIATES INC	Washington	NAVY	RDTE/Other Defense-Advanced Development	258
	WOODWARD-CLYDE FEDERAL SERVICE	Florida	USAF	RDTE/Other Defense-Advanced Development	38
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Advanced Development	28
	R&D TOTAL				1,277,865
AD94	A E C DESIGN	Virginia	NAVY	RDTE/Other Defense-Engineering Development	460

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FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Other Defense-Engineering Development	276
	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Other Defense-Engineering Development	686
	ALAR PRODUCTS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	2,377
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Engineering Development	118
	ARO CORPORATION	New York	USAF	RDTE/Other Defense-Engineering Development	2,955
	AYDIN CORPORATION	Penn	NAVY	RDTE/Other Defense-Engineering Development	99
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	628-
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	149
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Other Defense-Engineering Development	2,272
	C A E INDUSTRIES LTD	New York	USAF	RDTE/Other Defense-Engineering Development	58,548
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Other Defense-Engineering Development	9,334
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	82
	COMPUTER SCIENCES CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	500
	CONQUEST SOFTWARE INC	Maryland	USAF	RDTE/Other Defense-Engineering Development	200
	CONTRAVES USA INC	Penn	ARMY	RDTE/Other Defense-Engineering Development	1,960
	CSC ANALYTICS INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development	255
	EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Engineering Development	261
	ELDEC CORPORATION	Washington	USAF	RDTE/Other Defense-Engineering Development	190
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	660
	ELECTRONIC WARFARE ASSOCIATES	Florida	NAVY	RDTE/Other Defense-Engineering Development	237
	ENSCO INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development	50
	ENVIRONMENTAL RES INST OF MICH	Michigan	ARMY	RDTE/Other Defense-Engineering Development	350
	ENVIRONMENTAL TECHNOLOGIES GRO	Maryland	ARMY	RDTE/Other Defense-Engineering Development	8,652
	ETA TECHNOLOGIES CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	3,149

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AD94 (CONTINUED)

FAGIN SAMUEL L ASSOC	Penn	NAVY	RDTE/Other Defense-Engineering Development		\$ 150
FLIGHTSAFETY INTERNATIONAL	Colorado	USAF	RDTE/Other Defense-Engineering Development		542-
FUENTEZ SYSTEMS CONCEPTS INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development		714
GAERTNER W W RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Engineering Development		484
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development		485
	Michigan	ARMY	RDTE/Other Defense-Engineering Development		27,800
					28,285
					55,500
CONTRACTOR TOTAL					
GENERAL DYNAMICS WESTNGHSE JV	California	NAVY	RDTE/Other Defense-Engineering Development		
GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Other Defense-Engineering Development		166
GENERAL RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Defense-Engineering Development		425
GENTEX CORPORATION	Penn	USAF	RDTE/Other Defense-Engineering Development		6,000
GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Other Defense-Engineering Development		35
GNOSTECH INC	Penn	NAVY	RDTE/Other Defense-Engineering Development		458
H & R COMPANY	California	NAVY	RDTE/Other Defense-Engineering Development		42,600
HUDSON MACHINE & TOOL INC	Indiana	ARMY	RDTE/Other Defense-Engineering Development		70
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Defense-Engineering Development		250
ILLINOIS TOOL WORKS INC	Illinois	USAF	RDTE/Other Defense-Engineering Development		832
INFORMATION SYSTEMS NTRKS CORP	Ohio	USAF	RDTE/Other Defense-Engineering Development		1,364
INTERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development		30
JAYCOR	Ohio	USAF	RDTE/Other Defense-Engineering Development		573
KAPOS ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development		48
LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Other Defense-Engineering Development		2,000
LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Defense-Engineering Development		179
	Maryland	ARMY	RDTE/Other Defense-Engineering Development		2,500

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AD94 (CONTINUED)

	CONTRACTOR TOTAL				\$	549
LOCUS INC		Texas	NAVY	RDTE/Other Defense-Engineering Development		3,228
LOGICON INC		Penn	NAVY	RDTE/Other Defense-Engineering Development		90
LORAL CORP		Ohio	USAF	RDTE/Other Defense-Engineering Development		278
LOS ALAMOS TECHNICAL ASSOC INC		New York	NAVY	RDTE/Other Defense-Engineering Development		9,189
MCDONNELL DOUGLAS CORPORATION		New Mexico	ARMY	RDTE/Other Defense-Engineering Development		150
MEI TECHNOLOGY CORPORATION		Missouri	USAF	RDTE/Other Defense-Engineering Development		350
		Mass	USAF	RDTE/Other Defense-Engineering Development		5,528
		New York	USAF	RDTE/Other Defense-Engineering Development		831
	CONTRACTOR TOTAL					6,357
METRON INC		Penn	NAVY	RDTE/Other Defense-Engineering Development		313
MISSION RESEARCH CORPORATION		D.C.	NAVY	RDTE/Other Defense-Engineering Development		189
MODERN TECHNOLOGIES CORP		Alaska	USAF	RDTE/Other Defense-Engineering Development		76
		Ohio	USAF	RDTE/Other Defense-Engineering Development		103
		Texas	USAF	RDTE/Other Defense-Engineering Development		5,586
	CONTRACTOR TOTAL					5,766
MOTIVAIR CORPORATION		Alabama	ARMY	RDTE/Other Defense-Engineering Development		73
NOMURA ENTERPRISE INC		Illinois	ARMY	RDTE/Other Defense-Engineering Development		123
PLANNING SYSTEMS INCORPORATED		Virginia	NAVY	RDTE/Other Defense-Engineering Development		500
QUESTECH INC		Virginia	NAVY	RDTE/Other Defense-Engineering Development		75
RAYTHEON COMPANY		Mass	NAVY	RDTE/Other Defense-Engineering Development		125
RECOGNITION RESEARCH		Virginia	ARMY	RDTE/Other Defense-Engineering Development		49
REMTECH SERVICES INC		Virginia	ARMY	RDTE/Other Defense-Engineering Development		2,226
ROCKWELL POWER SYSTEMS		New Mexico	USAF	RDTE/Other Defense-Engineering Development		390

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	\$
AD94	(CONTINUED)				
	SCIENCE APPLICATIONS INTL CORP	Maine	USAF	RDTE/Other Defense-Engineering Development	296
		Ohio	USAF	RDTE/Other Defense-Engineering Development	334
		Virginia	NAVY	RDTE/Other Defense-Engineering Development	498
	CONTRACTOR TOTAL				1,129
	SECURE COMPUTING TECHNOLOGY CO	Minnesota	USAF	RDTE/Other Defense-Engineering Development	48
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Engineering Development	299
	SOFTECH INC	Virginia	USAF	RDTE/Other Defense-Engineering Development	759-
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Engineering Development	60
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Engineering Development	96
	SRI INTERNATIONAL	California	USAF	RDTE/Other Defense-Engineering Development	36
	SYNECTICS CORP	New York	USAF	RDTE/Other Defense-Engineering Development	2,983
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Engineering Development	1,125
	TOYON RESEARCH CORP	California	USAF	RDTE/Other Defense-Engineering Development	335
	TRW INC	Colorado	USAF	RDTE/Other Defense-Engineering Development	4,372
		Mass	USAF	RDTE/Other Defense-Engineering Development	198-
	CONTRACTOR TOTAL				4,174
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	NAVY	RDTE/Other Defense-Engineering Development	6,953
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Defense-Engineering Development	95
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Engineering Development	307
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Defense-Engineering Development	165
	VITRO CORPORATION	Penn	NAVY	RDTE/Other Defense-Engineering Development	38
	R&D TOTAL				279,187
AD95	3M	Minnesota	ARMY	RDTE/Other Defense-Operational Systems Dev	300
	AEL INDUSTRIES INC	Penn	USAF	RDTE/Other Defense-Operational Systems Dev	100

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	AEROJET	California	USAF	RDTE/Other Defense-Operational Systems Dev	6,957
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	49
	AQUA CHEM INC	Wisconsin	ARMY	RDTE/Other Defense-Operational Systems Dev	116
	ARRAL INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Operational Systems Dev	105
	AUGUST DESIGN & DEVELOPMENT	Penn	ARMY	RDTE/Other Defense-Operational Systems Dev	600
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	419
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	1,393
			NAVY	RDTE/Other Defense-Operational Systems Dev	432
		STATE TOTAL			1,825
	BECHDON COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	50
	BERKELEY RESEARCH ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	1,489
	BLACK & DECKER CORPORATION	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	1,211
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Defense-Operational Systems Dev	64
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	169
			USAF	RDTE/Other Defense-Operational Systems Dev	233
		STATE TOTAL			781
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	198
	BRUNSWICK CORPORATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	50
	CACI INTERNATIONAL INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev	247
	CAPE COD RESEARCH INC	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	350
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Defense-Operational Systems Dev	199
	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev	150
	CLARKSON ENGINEERING	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	370
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	13,507
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD95 (CONTINUED)

CONSULTANT SPECIALIST INC	Oregon	ARMY	RDTE/Other Defense-Operational Systems Dev	\$	200
CSA ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev		50
CUBIC CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev		886
DESCRIPT	Texas	ARMY	RDTE/Other Defense-Operational Systems Dev		45
DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Operational Systems Dev		600
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Operational Systems Dev		170
E-SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Operational Systems Dev		603
ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Operational Systems Dev		50
ELECTRO OPTICAL SERVICES INC	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev		62
ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Operational Systems Dev		10,976
FAAC INCORPORATED	Michigan	NAVY	RDTE/Other Defense-Operational Systems Dev		1,485
G R D INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		200
GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Other Defense-Operational Systems Dev		109
	Texas	ARMY	RDTE/Other Defense-Operational Systems Dev		73
CONTRACTOR TOTAL					182
GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Other Defense-Operational Systems Dev		200
GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev		209
GTE GOVERNMENT SYSTEMS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev		45
HARRIS CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev		216
	Florida	USAF	RDTE/Other Defense-Operational Systems Dev		1,444
	Indiana	USAF	RDTE/Other Defense-Operational Systems Dev		46
	New York	USAF	RDTE/Other Defense-Operational Systems Dev		1,291
	Penn	USAF	RDTE/Other Defense-Operational Systems Dev		1,008
	Texas	USAF	RDTE/Other Defense-Operational Systems Dev		674

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD95 (CONTINUED)

CONTRACTOR TOTAL					\$ 4,679
HIGH PERFORMANCE MATERIALS	Missouri	ARMY	RDTE/Other Defense-Operational Systems Dev	49	
HITTITE MICROWAVE CORPORATION	Mass	ARMY	RDTE/Other Defense-Operational Systems Dev	423	
HRB SYSTEMS INC	Penn	USAF	RDTE/Other Defense-Operational Systems Dev	50	
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Operational Systems Dev	1,375	
HUMAN RSRCES RES ORGANIZATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	221	
INFORMTION SYSTEMS NTRKS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	80	
	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	26	
CONTRACTOR TOTAL					106
INTEC INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	326	
INTEGRATD TCHNLGS FOR MEDICINE	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	50	
INTERSPEC INC	Penn	ARMY	RDTE/Other Defense-Operational Systems Dev	100	
J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Other Defense-Operational Systems Dev	73	
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	699	
K F O ASSOCIATES INC	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	135	
KETRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	725	
KNOWLEDGE SYSTEMS CONCEPTS	California	USAF	RDTE/Other Defense-Operational Systems Dev	352	
	New York	USAF	RDTE/Other Defense-Operational Systems Dev	73	
CONTRACTOR TOTAL					425
KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	105	
LICA SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	216	
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Other Defense-Operational Systems Dev	309	
LOCKHEED SANDERS INC	N.H.	USAF	RDTE/Other Defense-Operational Systems Dev	260	
LOGICON INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	9,558	

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AD95 (CONTINUED)	LOREAL CORP	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	5,165
	LSA INC	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	120
	MANAGEMENT ANALYSIS INC	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	55
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	880
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	6,020
	METRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	156
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	254
	MOTOROLA INC	Arizona	NAVY	RDTE/Other Defense-Operational Systems Dev	699
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Operational Systems Dev	51
	NATIONAL INSTITUTES OF HEALTH	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	60
	NDI ENGINEERING COMPANY	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	54
	NEW ENGLAND STEEL TANK CO	Mass	NAVY	RDTE/Other Defense-Operational Systems Dev	235
	ODYSSEY CONTRACTING COMPANY	New York	USAF	RDTE/Other Defense-Operational Systems Dev	728
	ORTEL CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	144
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Defense-Operational Systems Dev	138
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Operational Systems Dev	137
	PARAMAX SYSTEMS CORP	Minnesota	USAF	RDTE/Other Defense-Operational Systems Dev	700
	PRC INC	Hawaii	USAF	RDTE/Other Defense-Operational Systems Dev	1,133
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	4,203
	CONTRACTOR TOTAL				5,336
	QUANTICS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	366
	QUANTUM RESEARCH INTERNATIONAL	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	100
	R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Operational Systems Dev	100-
	R B C INCORPORATED	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	73

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AD95 (CONTINUED)					
	RAYTHEON COMPANY	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	\$ 131
	ROBINSON D G CORP	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	362
	ROCHESTER PHOTONICS CORP	New York	ARMY	RDTE/Other Defense-Operational Systems Dev	209
	ROCKWELL POWER SYSTEMS	Hawaii	USAF	RDTE/Other Defense-Operational Systems Dev	2,243
	RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	849
	SCHUYLER DYNAMICS INC	New York	ARMY	RDTE/Other Defense-Operational Systems Dev	105
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Defense-Operational Systems Dev	640
			USAF	RDTE/Other Defense-Operational Systems Dev	70
			STATE TOTAL		710
		Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	302
		Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	1,836
		Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	1,646
			USAF	RDTE/Other Defense-Operational Systems Dev	556
			STATE TOTAL		2,202
	CONTRACTOR TOTAL				5,051
	SCIENTIFIC TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	123
	SCITEQ ELECTRONICS INC	California	ARMY	RDTE/Other Defense-Operational Systems Dev	234
	SECURE COMPUTING TECHNOLOGY CO	Minnesota	USAF	RDTE/Other Defense-Operational Systems Dev	947
	SILICON GRAPHICS INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev	84
	SPARTA INC	California	ARMY	RDTE/Other Defense-Operational Systems Dev	462
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Defense-Operational Systems Dev	74
	SRIRAM S	Ohio	ARMY	RDTE/Other Defense-Operational Systems Dev	200
	SYSCON CORPORATION	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	935
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	96
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	60

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AD95 (CONTINUED)

SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	\$	279
TAU CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev		32
TECH INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		563
THERMOTREX CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev		2,253
TRUSTED INFORMATION SYSTEMS	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev		477
TRW INC	California	USAF	RDTE/Other Defense-Operational Systems Dev		200
U.S. INTERTECH, INC.	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		200
UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev		600
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Operational Systems Dev		737
VITRO CORPORATION	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev		1,054
WACKENHUT APPLIED TECH CTR	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		89
XONTECH INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev		46
R&D TOTAL					105,215
AD96 3M	Minnesota	NAVY	RDTE/Other Defense-Management & Support		75
A3 CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support		65
ACCURATE AUTOMATION CORP	Tennessee	NAVY	RDTE/Other Defense-Management & Support		200
ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Management & Support		49
ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Other Defense-Management & Support		50
ADVANCED DESIGN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support		839
ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Other Defense-Management & Support		701
AEROMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support		50
AIREX CORPORATION	N.H.	USAF	RDTE/Other Defense-Management & Support		74
ALBANY TITANIUM INC	Oregon	USAF	RDTE/Other Defense-Management & Support		133-
AMERICAN GNC CORPORATION	California	USAF	RDTE/Other Defense-Management & Support		200

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AD96 (CONTINUED)					
	ANALATOM INC	California	USAF	RDTE/Other Defense-Management & Support	355
	ANALYTICAL SERVICES & MATERIAL	Virginia	USAF	RDTE/Other Defense-Management & Support	48
	ANDRULIS RESEARCH CORPORATION	Maryland	ARMY	RDTE/Other Defense-Management & Support	60
		Virginia	ARMY	RDTE/Other Defense-Management & Support	60
	CONTRACTOR TOTAL				120
	APPLIED TECHNOLOGY ASSOCIATES	Florida	USAF	RDTE/Other Defense-Management & Support	50
		New Mexico	ARMY	RDTE/Other Defense-Management & Support	49
	CONTRACTOR TOTAL				99
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Management & Support	500
	ARTIFICIAL INTELLIGENCE CORP	Texas	USAF	RDTE/Other Defense-Management & Support	398
	ASTROPOWER INC	Delaware	USAF	RDTE/Other Defense-Management & Support	50
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Management & Support	2,087
	AXIOM CORPORATION	Virginia	USAF	RDTE/Other Defense-Management & Support	49
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	75
	B-K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	26
	BDM INTERNATIONAL INC	California	NAVY	RDTE/Other Defense-Management & Support	272
		Virginia	NAVY	RDTE/Other Defense-Management & Support	99
	CONTRACTOR TOTAL				372
	BDM MANAGEMENT SERVICES CO	California	NAVY	RDTE/Other Defense-Management & Support	415
	BETAC CORPORATION	Texas	USAF	RDTE/Other Defense-Management & Support	133
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	75
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	625
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	378
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Management & Support	792

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FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	CAPE COD RESEARCH INC	Mass	USAF	RDTE/Other Defense-Management & Support	\$ 106
	CASTLE TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Management & Support	32
	CCS ASSOCIATES	Penn	USAF	RDTE/Other Defense-Management & Support	63
	CFD RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Defense-Management & Support	250
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Management & Support	249
	COCKERHAM JOHN M & ASSOCIATES	Alabama	ARMY	RDTE/Other Defense-Management & Support	85
	COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Other Defense-Management & Support	70
	CREARE INC	N.H.	USAF	RDTE/Other Defense-Management & Support	135
	CREE RESEARCH INC	N Carolina	USAF	RDTE/Other Defense-Management & Support	50
	DEEGAN RESEARCH GROUP INC	Rhode Isld	USAF	RDTE/Other Defense-Management & Support	45
	DEVELOPMENTAL SCIENCES CORP	California	ARMY	RDTE/Other Defense-Management & Support	2,037
	E I C LABORATORY INC	Maryland	USAF	RDTE/Other Defense-Management & Support	59
		Mass	USAF	RDTE/Other Defense-Management & Support	250
	CONTRACTOR TOTAL				309
	E TEK DYNAMICS INC	Florida	USAF	RDTE/Other Defense-Management & Support	150
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Management & Support	229
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Management & Support	228
	ELASTOMERIC TECHNOLOGIES	Penn	USAF	RDTE/Other Defense-Management & Support	50
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Management & Support	155
	ELECTRO-OPTIK CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	50
	ELECTRO-RADIATION INC	New Jersey	USAF	RDTE/Other Defense-Management & Support	48
	ELECTRODYNE SYSTEMS CORP	New Jersey	NAVY	RDTE/Other Defense-Management & Support	126
	EMF SYSTEMS INC	California	USAF	RDTE/Other Defense-Management & Support	50
	ENERGY MATTER CONVERSION CORP	Virginia	NAVY	RDTE/Other Defense-Management & Support	49

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	FIBER MATERIALS INC	Maine	USAF	RDTE/Other Defense-Management & Support	\$ 47
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Other Defense-Management & Support	50
	FLOW RESEARCH INC	Washington	USAF	RDTE/Other Defense-Management & Support	775
	FOSTER MILLER INC	Mass	NAVY	RDTE/Other Defense-Management & Support	55
	FOSTER-MILLER INC	Mass	USAF	RDTE/Other Defense-Management & Support	1,040
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support	196
		Ohio	USAF	RDTE/Other Defense-Management & Support	250
					446
	CONTRACTOR TOTAL				
	GENERAL ENGRG SYSTEMS ANALIS	Maryland	USAF	RDTE/Other Defense-Management & Support	121
	GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Management & Support	60
	GENERAL RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Management & Support	50
	GENERAL SCIENCES INC	Penn	USAF	RDTE/Other Defense-Management & Support	49
	GEO CENTERS INC	Mass	ARMY	RDTE/Other Defense-Management & Support	30
			NAVY	RDTE/Other Defense-Management & Support	1,096
					1,127
			STATE TOTAL		
	GEO-MICROBIAL TECHNOLOGIES	Oklahoma	NAVY	RDTE/Other Defense-Management & Support	50
	GUPTA PRADEEP K INC	New York	USAF	RDTE/Other Defense-Management & Support	50
	HUMAN RSRCS RES ORGANIZATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	50
	I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	115
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Management & Support	42
	IMAGING & SENSING TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support	135
	INFORMATION PLANNING ASSOC	Virginia	NAVY	RDTE/Other Defense-Management & Support	43
	INRAD INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support	50
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Defense-Management & Support	68,780

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AD96 (CONTINUED)

INTELLISENSE CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	53
INTERMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support	1,857
INTERN'L STRATEGIC TRADE, INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	69
INTRNTNL ELEC MATERIALS CORP	Ohio	ARMY	RDTE/Other Defense-Management & Support	50
IRVINE SENSORS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	200
ISX CORPORATION	Georgia	USAF	RDTE/Other Defense-Management & Support	53
KAHN HARRY J ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	328
KEYSTONE COMPUTER ASSOCIATES	Maryland	NAVY	RDTE/Other Defense-Management & Support	55
	Penn	NAVY	RDTE/Other Defense-Management & Support	40
CONTRACTOR TOTAL				95
KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Defense-Management & Support	232
KNOWLEDGE BASED SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Management & Support	119
LANXIDE CORP	Delaware	NAVY	RDTE/Other Defense-Management & Support	802
LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Other Defense-Management & Support	149
		USAF	RDTE/Other Defense-Management & Support	50
		STATE TOTAL		199
LITHIUM ENERGY ASSOCIATES	Mass	USAF	RDTE/Other Defense-Management & Support	226
M DOT INCORPORATED	Arizona	USAF	RDTE/Other Defense-Management & Support	54
M L ENERGIA INC	New Jersey	USAF	RDTE/Other Defense-Management & Support	50
M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	300
MADEN TECH CONSULTING INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	5,207
MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Other Defense-Management & Support	54
MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Other Defense-Management & Support	147
MDA ENGINEERING	Texas	USAF	RDTE/Other Defense-Management & Support	53

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD96 (CONTINUED)

MEMBRANE TECHNOLOGY & RESEARCH	California	USAF	RDTE/Other Defense-Management & Support	\$	240
MEMRY CORPORATION	Conn	USAF	RDTE/Other Defense-Management & Support		48
MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support		1,224
MICROSCOPY RESEARCH LABS	New Jersey	NAVY	RDTE/Other Defense-Management & Support		100
MICROSIM INC	Virginia	NAVY	RDTE/Other Defense-Management & Support		118
MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Management & Support		51
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support		50
MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Other Defense-Management & Support		75
MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Other Defense-Management & Support		1,513
MOLTEN SALT TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Defense-Management & Support		50
NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Management & Support		537
NAVROL	Texas	USAF	RDTE/Other Defense-Management & Support		50
NCHIP INC	California	USAF	RDTE/Other Defense-Management & Support		497
NIGHT VISION CORPORATION	Illinois	USAF	RDTE/Other Defense-Management & Support		823
OPHTHALMIC INSTRUMENTS INC	Colorado	USAF	RDTE/Other Defense-Management & Support		48
OPTRA INC	Mass	USAF	RDTE/Other Defense-Management & Support		50
ORTEL CORPORATION	California	USAF	RDTE/Other Defense-Management & Support		150
PECHT ASSOCIATES	Maryland	USAF	RDTE/Other Defense-Management & Support		50
PHYSICAL OPTICS CORPORATION	California	NAVY USAF	RDTE/Other Defense-Management & Support RDTE/Other Defense-Management & Support		48 205
	STATE TOTAL				253
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other Defense-Management & Support		365
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Management & Support		181
PRC INC	Virginia	ARMY	RDTE/Other Defense-Management & Support		192

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	PRECISION COMBUSTION INC	Conn	USAF	RDTE/Other Defense-Management & Support	57
	PROGRESSIVE LRNG UNVSL MGMT	Maryland	USAF	RDTE/Other Defense-Management & Support	149
	QUANTEX CORPORATION	Maryland	USAF	RDTE/Other Defense-Management & Support	200
	QUANTITATIVE TECHNOLOGY CORP	Oregon	USAF	RDTE/Other Defense-Management & Support	50
	QUANTUM ELECTRONICS TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support	100
	RAND CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	41,482
	REAL TIME INTELLIGENT SYS CORP	Mass	USAF	RDTE/Other Defense-Management & Support	250
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Other Defense-Management & Support	78
	RESOURCE TECHNOLOGIES GROUP	W Virginia	USAF	RDTE/Other Defense-Management & Support	135
	RIVERSIDE RESEARCH INSTITUTE	New York	NAVY	RDTE/Other Defense-Management & Support	200
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Management & Support	53
	S K W CORP	California	USAF	RDTE/Other Defense-Management & Support	48
	S-TRON	California	USAF	RDTE/Other Defense-Management & Support	38
	SAVANNAH RESEARCH ASSOC	Virginia	USAF	RDTE/Other Defense-Management & Support	415
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Management & Support	125
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Defense-Management & Support	250
	SCIENTIFIC AND ENGRG SFTWR	Texas	USAF	RDTE/Other Defense-Management & Support	65
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Other Defense-Management & Support	250
	SEMCOR INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support	3,867
	SENTEL CORP	Florida	USAF	RDTE/Other Defense-Management & Support	2,143
	SERVIS DAVID A INC	Ohio	USAF	RDTE/Other Defense-Management & Support	150
	SILHOUETTE TECHNOLOGY INC	New Jersey	USAF	RDTE/Other Defense-Management & Support	59
	SIMPX TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Management & Support	48
	SINHA SACH AND ASSOC	California	USAF	RDTE/Other Defense-Management & Support	50

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Management & Support	274
	SPARTA INC	California	USAF	RDTE/Other Defense-Management & Support	49
	SPIRE CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	49
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Management & Support	757
	SRS TECHNOLOGIES	Alabama	USAF	RDTE/Other Defense-Management & Support	200
	STRATEGIC ANALYSIS INC	Virginia	NAVY	RDTE/Other Defense-Management & Support	302
	STRESS TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Management & Support	275
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Management & Support	26
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Other Defense-Management & Support	59
	SYLVEST MANAGEMENT SYSTEM	Maryland	NAVY	RDTE/Other Defense-Management & Support	51
	SYSTEM PLANNING CORPORATION	Maryland	NAVY	RDTE/Other Defense-Management & Support	150
		Virginia	NAVY	RDTE/Other Defense-Management & Support	50
	CONTRACTOR TOTAL				200
	SYSTEMS SCIENCE APPLICATION	California	NAVY	RDTE/Other Defense-Management & Support	123
	TACAN CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	50
	TDA RESEARCH INC	Colorado	USAF	RDTE/Other Defense-Management & Support	250
	TECHNOLOGY INTERNATIONAL CORP	Mass	USAF	RDTE/Other Defense-Management & Support	250
	TEXAS MEDICAL INSTRUMENTS	Texas	ARMY	RDTE/Other Defense-Management & Support	64
	TOYON RESEARCH CORP	California	USAF	RDTE/Other Defense-Management & Support	240
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Other Defense-Management & Support	49
	TRS CERAMICS INC	Penn	NAVY	RDTE/Other Defense-Management & Support	48
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	220
	UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Management & Support	700
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Management & Support	90

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD96 (CONTINUED)

UNIVERSITY OF ROCHESTER	New York	USAF	RDTE/Other Defense-Management & Support	\$	250
VATELL CORPORATION	Virginia	USAF	RDTE/Other Defense-Management & Support		48
VIASAT INC	California	NAVY	RDTE/Other Defense-Management & Support		50
VISTA TECHNOLOGIES INC	Illinois	USAF	RDTE/Other Defense-Management & Support		246
WILLIAMSON CONSULTING	Ohio	USAF	RDTE/Other Defense-Management & Support		31
WINDROCK INC	Tennessee	USAF	RDTE/Other Defense-Management & Support		47
WYLE LABORATORIES	California	USAF	RDTE/Other Defense-Management & Support		517
XONTECH INC	California	NAVY	RDTE/Other Defense-Management & Support		144
		USAF	RDTE/Other Defense-Management & Support		54
	STATE TOTAL				198
ZALLEN INTERNATIONAL ASSOC	New Mexico	USAF	RDTE/Other Defense-Management & Support		252
R&D TOTAL					159,506
AE14 INTERMETRICS INC	Penn	NAVY	RDTE/Emplmnt Growth & Productivity-Engr D		128
AE21 EER SYSTEMS CORPORATION	Virginia	USAF	RDTE/Product or Srvc Improvement-Basic Res		746
MANAGEMENT CONSULTING & RES	Virginia	USAF	RDTE/Product or Srvc Improvement-Basic Res		2,073
TECOLOTE RESEARCH INC	California	USAF	RDTE/Product or Srvc Improvement-Basic Res		5,623
R&D TOTAL					8,441
AE25 EDISON INDUSTRIAL SYSTEMS CTR	Ohio	USAF	RDTE/Product or Srvc Improvement-Op System		28
AE31 LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Manufacturing Technology-Basic Resear		370
AE32 ACCU SORT SYSTEMS INC	Penn	NAVY	RDTE/Manufacturing Technology-Exploratory		45
AMERICAN WELDING INSTITUTE	Tennessee	NAVY	RDTE/Manufacturing Technology-Exploratory		1,000
MRS TECHNOLOGY INC	Mass	USAF	RDTE/Manufacturing Technology-Exploratory		4,059
R&D TOTAL					5,104
AE33 LEHIGH UNIVERSITY	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev		797

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE33 (CONTINUED)					
	UES INC	Ohio	USAF	RDTE/Manufacturing Technology-Advanced Dev	400
	UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev	16,350
	R&D TOTAL				17,547
AE34	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Manufacturing Technology-Engr Develop	196
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Manufacturing Technology-Engr Develop	76
	R&D TOTAL				272
AE35	3M	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D	900
	AKTIS CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,099
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Manufacturing Technology-Op Systems D	900
	APPLIED SOLAR ENERGY CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	438
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	320
	AVCO CORPORATION	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	8,180
	BOEING COMPANY THE	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	698
	CONTRACTOR TOTAL	Washington	USAF	RDTE/Manufacturing Technology-Op Systems D	2,000
					2,698
	CENTRAL STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	263
	CINCINNATI MILACRON MKTG CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	93
	CLEMSON UNIVERSITY	New Mexico	DLA	RDTE/Manufacturing Technology-Op Systems D	72
		S Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	318
	CONTRACTOR TOTAL				390
	CORPORATION FOR OPEN	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	117
	DRAVO CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	1,650
	FASHION INST OF TECHNOLOGY	New York	DLA	RDTE/Manufacturing Technology-Op Systems D	868
	FLORIDA INTERNATIONAL UNIV	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	53

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AE35 (CONTINUED)

GARD DIVISION	Illinois	ARMY	RDTE/Manufacturing Technology-Op	Systems D	56
GENERAL ATOMICS	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	3,056
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	856
GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Manufacturing Technology-Op	Systems D	2,141
GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Manufacturing Technology-Op	Systems D	100
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	789
GEORGIA TECH RESEARCH CORP	Georgia	ARMY DLA	RDTE/Manufacturing Technology-Op RDTE/Manufacturing Technology-Op	Systems D Systems D	359 666
	STATE TOTAL				1,025
HONEYWELL INC	Minnesota	USAF	RDTE/Manufacturing Technology-Op	Systems D	200
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	1,000
INDUSTRIAL TCHNOLOGY INSTITUTE	Michigan	USAF	RDTE/Manufacturing Technology-Op	Systems D	87
INTERMETRICS INC	Virginia	USAF	RDTE/Manufacturing Technology-Op	Systems D	1,000
LAWRENCE ASSOCIATES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op	Systems D	11,708
LITTON INDUSTRIES INC	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	153
LITTON SYSTEMS INC	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	161
LOCKHEED CORPORATION	Georgia	USAF	RDTE/Manufacturing Technology-Op	Systems D	44
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Op	Systems D	2,900
MCDONNELL AIRCRAFT COMPANY	Missouri	USAF	RDTE/Manufacturing Technology-Op	Systems D	1,150
MCDONNELL DOUGLAS MSL SYS CO	Missouri	USAF	RDTE/Manufacturing Technology-Op	Systems D	137
MECHANICAL TECHNOLOGY INC	New York	ARMY USAF	RDTE/Manufacturing Technology-Op RDTE/Manufacturing Technology-Op	Systems D Systems D	30 150
	STATE TOTAL				180
MICROELECTRONICS CMPT TECH CORP	Texas	USAF	RDTE/Manufacturing Technology-Op	Systems D	1,000
NATIONAL SEMICONDUCTOR CORP	California	USAF	RDTE/Manufacturing Technology-Op	Systems D	356

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE35 (CONTINUED)					
	NEW JERSEY INST OF	New Jersey	USAF	RDTE/Manufacturing Technology-Op Systems D	300
	NORTH CAROLINA A&T STATE UNIV	N Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	135
	NORTH CAROLINA STATE OF	N Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	806
	NORTHROP CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	3,572
		Illinois	USAF	RDTE/Manufacturing Technology-Op Systems D	900
	CONTRACTOR TOTAL				4,472
	ONTEK CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	760
	PHOTON DYNAMICS INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	3,387
	R J O ENTERPRISES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	162
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,500
	SOUTH CAROLINA RESCH AUTHORITY	S Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	800
	SOUTH CAROLINA STATE OF	S Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	400
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	169
	SPECTRUM SCIENCES INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	2,140
	TASC	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	2,305
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	500
	TEXAS INSTRS WESTINGHOUSE JV	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	2,990
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	14,564
	TRW INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	73
	UES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	600
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	2,679
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	60
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	400
	USBI CO INC	Alabama	USAF	RDTE/Manufacturing Technology-Op Systems D	2,697

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AE35 (CONTINUED)					
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	\$ 1,280
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	200
	CONTRACTOR TOTAL				1,480
	XMR INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,064
	R&D TOTAL				90,514
	AF12 S I P I BOARD OF REGENTS	New Mexico	ARMY	RDTE/Education-Exploratory Development	50
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Education-Exploratory Development	194
	R&D TOTAL				245
	AF16 COLLEGE BOARD THE	D.C.	ARMY	RDTE/Education-Management & Support	61
	MCGOWEN SA	PANAMA	ARMY	RDTE/Education-Management & Support	1,269
	R&D TOTAL				1,330
	AG84 CENTAURUS SOFTWARE INC	California	USAF	RDTE/Conservation of Energy - Engineering	42
	AG91 BEN LANGLEY & ASSOCIATES	Wisconsin	USAF	RDTE/Other Energy - Basic Research	45
	SUPERCONDUCTIVITY	Wisconsin	USAF	RDTE/Other Energy - Basic Research	49
	R&D TOTAL				94
	AG92 SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Energy - Exploratory Developmen	125
	AH11 CONTINUUM DYNAMICS INC	New Jersey	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	49
	CORNELL UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	90
	UDELL TECHNOLOGIES	California	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	47
	R&D TOTAL				186
	AH12 AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Pollution Cntl & Abatement-Explorator	50
	GENERAL ELECTRIC COMPANY	Florida	USAF	RDTE/Pollution Cntl & Abatement-Explorator	382
	SPACE INDUSTRIES INTERNATIONAL	Texas	USAF	RDTE/Pollution Cntl & Abatement-Explorator	49
	R&D TOTAL				480

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AH13	INRAD INC	New Jersey	USAF	RDTE/Pollution Cntl & Abatement-Advanced D	314
AH21	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Air Pollution-Basic Research	2,264
AH22	ADVANCED FUEL RESEARCH INC	Conn	ARMY	PDTE/Air Pollution-Exploratory Development	250
AH26	FOSTER MILLER INC	Mass	USAF	RDTE/Air Pollution-Management & Support	106
	M L ENERGIA INC	New Jersey	USAF	RDTE/Air Pollution-Management & Support	380
	WINTEC INC	Florida	USAF	RDTE/Air Pollution-Management & Support	383
	R&D TOTAL				869
AH31	E I C LABORATORIES INC	Mass	USAF	RDTE/Water Pollution-Basic Research	62
	MICHIGAN TCHNLGCL UNIVERSITY	Michigan	USAF	RDTE/Water Pollution-Basic Research	192
	R&D TOTAL				254
AH91	GENERAL ATOMICS	California	USAF	RDTE/Other Environmental Protection-Basic	293
	MC CLENAHAN & HOPKINS ASSOC	California	NAVY	RDTE/Other Environmental Protection-Basic	150
	REJEN COMPANY THE	California	USAF	RDTE/Other Environmental Protection-Basic	50
	SURFACTANT ASSOCS	Oklahoma	USAF	RDTE/Other Environmental Protection-Basic	50
	TRAVERSE GROUP INCORPORATED	Michigan	USAF	RDTE/Other Environmental Protection-Basic	42
	R&D TOTAL				585
AH92	ADVANCED SCIENCES INC	Florida	USAF	RDTE/Other Environmental Protection-Explor	1,948
	AUTOMATION RES SYSTEMS LTD	Maryland	ARMY	RDTE/Other Environmental Protection-Explor	64
	CONTRACTOR TOTAL	Virginia	ARMY	RDTE/Other Environmental Protection-Explor	283
	INTERNATIONAL TECHNOLOGY CORP	Maryland	ARMY	RDTE/Other Environmental Protection-Explor	347
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Other Environmental Protection-Explor	86
	SOUTHEASTN CTR ELECTR ENG ED	New Jersey	USAF	RDTE/Other Environmental Protection-Explor	106
	UELLE TECHNOLOGIES	California	NAVY	RDTE/Other Environmental Protection-Explor	37
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Other Environmental Protection-Explor	258
	WESTON ROY F INC	Penn	ARMY	RDTE/Other Environmental Protection-Explor	143
					838

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AH94	BIOTRONICS TECHNOLOGIES INC	Wisconsin	USAF	RDTE/Other Environmental Protection-Engr D	3,763
GENERAL ATOMICS					
		California	USAF	RDTE/Other Environmental Protection-Engr D	57
R&D TOTAL					
AH96	NATIONAL DEFENSE ENVMTL CORP	Penn	ARMY	RDTE/Other Environmental Protection-Mgmt &	2,100
AJ11	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Physical Sciences - Basic Research	2,157
	AEROCHEM RESEARCH LABORATORIES	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	5,650
	ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	49
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	70
	AMRON CORPORATION	Virginia	NAVY	RDTE/Physical Sciences - Basic Research	150
	APPLIED ANALYSIS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	55
	ARCO POWER TECHNOLOGIES INC	D.C.	USAF	RDTE/Physical Sciences - Basic Research	365
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	34
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences - Basic Research	293
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research	280
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Basic Research	178
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	326
	BDM MANAGEMENT SERVICES CO	Virginia	USAF	RDTE/Physical Sciences - Basic Research	394
	BELL COMMUNICATIONS RESEARCH	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	479
	BERKELEY APPLIED SCI	California	USAF	RDTE/Physical Sciences - Basic Research	190
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Basic Research	76
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Basic Research	148
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	158
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Physical Sciences - Basic Research	2,993
					637
					43

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CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)				
CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research	2,500
CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	71
CANETICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	91
CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Basic Research	30
CITY UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	100
COGNITECH INC	California	USAF	RDTE/Physical Sciences - Basic Research	112
COLORADO SEMINARY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	208
COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	43
COMPUTATIONAL MECHANICS CORP	Texas	USAF	RDTE/Physical Sciences - Basic Research	141
COMPUTATIONAL PHYSICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	160
CONNECTICUT STATE OF	Conn	USAF	RDTE/Physical Sciences - Basic Research	50
CORNELL UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	617
CRYSTALLUME	California	USAF	RDTE/Physical Sciences - Basic Research	64
DARTMOUTH COL'EGE	N.H.	USAF	RDTE/Physical Sciences - Basic Research	100
DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	523
DEVANEY A J ASSOCIATES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	29
DEVELOSOFT CORP	Colorado	USAF	RDTE/Physical Sciences - Basic Research	47
DEXTER CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	35
DIGITAL INSTRUMENTS INC	California	USAF	RDTE/Physical Sciences - Basic Research	150
DISPLAYTECH INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	56
DUKE UNIVERSITY	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	80
E E G SYSTEMS LABORATORY INC	California	USAF	RDTE/Physical Sciences - Basic Research	175
ELECTRONIC MATERIALS ENGRG	California	USAF	RDTE/Physical Sciences - Basic Research	57
ENSCO INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	83

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	EPIR LIMITED INC	Illinois	USAF	RDTE/Physical Sciences - Basic Research	380
	EVI INCORPORATED	Maryland	ARMY	RDTE/Physical Sciences - Basic Research	55
	FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Physical Sciences - Basic Research	147
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Basic Research	50
	GENERAL ATOMICS	California	USAF	RDTE/Physical Sciences - Basic Research	744
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	99
		New York	USAF	RDTE/Physical Sciences - Basic Research	1,036
		Ohio	USAF	RDTE/Physical Sciences - Basic Research	152
	CONTRACTOR TOTAL				1,287
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	251
		Mass	USAF	RDTE/Physical Sciences - Basic Research	175
	CONTRACTOR TOTAL				426
	GED CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	70
	GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Physical Sciences - Basic Research	100
	GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Physical Sciences - Basic Research	45
	GORCA SYSTEMS INCORPORATED	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	40
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Basic Research	81
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	50
	HEBREW UNIVERSITY OF JERUSALEM	ISRAEL	ARMY	RDTE/Physical Sciences - Basic Research	90
	HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	219
	HOWARD UNIVERSITY	D.C.	USAF	RDTE/Physical Sciences - Basic Research	257
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Basic Research	554
		Maryland	USAF	RDTE/Physical Sciences - Basic Research	61
	CONTRACTOR TOTAL				615

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	IBIS TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	135
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research	77
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Physical Sciences - Basic Research	65
	INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Basic Research	135
	JACKSON STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research	74
	JAMIESON SCIENCE & ENGINEERING	California	USAF	RDTE/Physical Sciences - Basic Research	168
	JCS SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	40
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Basic Research	616
	KESTREL INSTITUTE	California	USAF	RDTE/Physical Sciences - Basic Research	100
	KOPIN CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	42
	KTAADN INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	95
	LASER PHOTONICS	New York	USAF	RDTE/Physical Sciences - Basic Research	305
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Physical Sciences - Basic Research	264
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Basic Research	623
	LOUISIANA STATE UNIV SYSTEM	Louisiana	USAF	RDTE/Physical Sciences - Basic Research	70
	MAN LABS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	82
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research	144
	MARTIN SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	48
	MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Physical Sciences - Basic Research	578
	MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	110
	MATIS INC	Georgia	USAF	RDTE/Physical Sciences - Basic Research	59
	MAXWELL LABORATORIES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	200
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	101
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	203
		Missouri	USAF	RDTE/Physical Sciences - Basic Research	212

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	CONTRACTOR TOTAL				
	MEHARRY MEDICAL COLLEGE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	415
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Physical Sciences - Basic Research	159
	MIMD SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research	181
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	555
		N.H.	USAF	RDTE/Physical Sciences - Basic Research	266
			USAF	RDTE/Physical Sciences - Basic Research	215
	CONTRACTOR TOTAL				481
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research	87
	MSNW INC	California	USAF	RDTE/Physical Sciences - Basic Research	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Basic Research	2,989
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	349
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Basic Research	174
	NORTH CAROLINA A&T STATE UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	58
	NORTH CAROLINA CENTRAL UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	62
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	126
	NORTHWEST RESEARCH ASSOC JV	Washington	USAF	RDTE/Physical Sciences - Basic Research	622
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Basic Research	86
	OPTIVISION INC	California	USAF	RDTE/Physical Sciences - Basic Research	400
	OREGON GRAD CTR STUDY RESEARCH	Oregon	NAVY	RDTE/Physical Sciences - Basic Research	100
	ORION INTERNATIONAL TECH	Mass	USAF	RDTE/Physical Sciences - Basic Research	144
	P C O INC	California	USAF	RDTE/Physical Sciences - Basic Research	70-
	PAQ COMMUNICATIONS	California	USAF	RDTE/Physical Sciences - Basic Research	49
	PHOTONICS RESEARCH INC	Colorado	USAF	RDTE/Physical Sciences - Basic Research	135
	PHRAXOS RESEARCH & DEV	California	USAF	RDTE/Physical Sciences - Basic Research	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	331
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	884
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	100
	PROMETHEUS INC	Rhode Isld	USAF	RDTE/Physical Sciences - Basic Research	49
	QUANTUM EPITAXIAL	Penn	USAF	RDTE/Physical Sciences - Basic Research	50
	R D P INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	408
	RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Basic Research	483
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Physical Sciences - Basic Research	763
	RESEARCH FOUNDN OF UNIV OF NY	New York	USAF	RDTE/Physical Sciences - Basic Research	803
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	437
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research	1,078
	SAPHIKON INC	N.H.	USAF	RDTE/Physical Sciences - Basic Research	200
	SCIENCE APPLICATIONS INTL CORP	Virginia	NAVY	RDTE/Physical Sciences - Basic Research	50
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	239
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Physical Sciences - Basic Research	5,758
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	50
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Physical Sciences - Basic Research	313
	SPACE ENVIRONMENT CORPORATION	Utah	USAF	RDTE/Physical Sciences - Basic Research	153
	SPACE RESEARCH TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Basic Research	259
	SPACE SCIENCES CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research	103
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,511
	SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	240
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Basic Research	844
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Basic Research	703

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Basic Research	168
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,095
	TERA RESEARCH INC	California	USAF	RDTE/Physical Sciences - Basic Research	46
	TEXAS A & M RESEARCH FDN	Texas	USAF	RDTE/Physical Sciences - Basic Research	170
	TEXAS A & M UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	130
	TRUSTEES COLUMBIA UNIV	New York	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	65 292
		STATE TOTAL			357
	TRW INC	California	USAF	RDTE/Physical Sciences - Basic Research	140
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	82
	UES INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	242
	UNITED KINGDOM AUTOMIC	UNITED KIN	USAF	RDTE/Physical Sciences - Basic Research	1,035
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Basic Research	738
	UNIV OF MD BALTIMORE COUNTY	Maryland	USAF	RDTE/Physical Sciences - Basic Research	75
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Basic Research	873
	UNIVERSITY OF ARKANSAS	Arkansas	USAF	RDTE/Physical Sciences - Basic Research	106
	UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	150 2,898
		STATE TOTAL			3,048
	UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Physical Sciences - Basic Research	54
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Physical Sciences - Basic Research	291
	UNIVERSITY OF DUBLIN	UNITED KIN	ARMY	RDTE/Physical Sciences - Basic Research	28
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Physical Sciences - Basic Research	251
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Physical Sciences - Basic Research	327
	UNIVERSITY OF LOUISVILLE	Kentucky	USAF	RDTE/Physical Sciences - Basic Research	75

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Basic Research	605
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Basic Research	380
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Basic Research	279
	UNIVERSITY OF MINNESOTA	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	160
	UNIVERSITY OF MISSISSIPPI	Miss	USAF	RDTE/Physical Sciences - Basic Research	100
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	294
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Basic Research	600
	UNIVERSITY OF PUERTO RICO	Puerto Ric	USAF	RDTE/Physical Sciences - Basic Research	75
	UNIVERSITY OF RHODE ISLAND	Rhode Islnd	USAF	RDTE/Physical Sciences - Basic Research	82
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Basic Research	1,357
	UNIVERSITY OF TECHNOLOGY	UNITED KIN	ARMY	RDTE/Physical Sciences - Basic Research	31
	UNIVERSITY OF TEXAS ARLINGTON	Texas	USAF	RDTE/Physical Sciences - Basic Research	60
	UNIVERSITY OF TEXAS AT AUSTIN	Texas	USAF	RDTE/Physical Sciences - Basic Research	685
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Physical Sciences - Basic Research	103
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Basic Research	88
	UNIXPROS INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	50
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Basic Research	920
	UTD INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	96
	VIASAT INC	California	USAF	RDTE/Physical Sciences - Basic Research	1,612
	VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	USAF	RDTE/Physical Sciences - Basic Research	167
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	147
	W VIRGINIA INSTITUTE TECH	W Virginia	USAF	RDTE/Physical Sciences - Basic Research	248
	WAGNER DANIEL H ASSOCIATES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	50
	WASHINGTON STATE UNIVERSITY	Washington	USAF	RDTE/Physical Sciences - Basic Research	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	407
	XEROX CORP	California	USAF	RDTE/Physical Sciences - Basic Research	223
	XMCO INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	45
	ZEGAR ABRAMS INCORPORATED	Penn	USAF	RDTE/Physical Sciences - Basic Research	42
	R&D TOTAL				62,587
	AJ12 AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	115
	AMPTEK INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	513
	ANTECH SERVICES INC	California	ARMY	RDTE/Physical Sciences - Exploratory Devel	292
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	497
	ASSURANCE TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	560
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	1,298
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	169
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	634
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	699
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	576
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	3,058
	CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Physical Sciences - Exploratory Devel	254
	CELCO INDUSTRIES INC	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	158
	CLENSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	102
	COGNITECH INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	204
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Exploratory Devel	120
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	644
	FAST MATH ALGOR & HARDWARE	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	133

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	158
	GEOSPACE RESEARCH INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	715
	HUGHES ASSOCIATES INC	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	98
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Physical Sciences - Exploratory Devel	2,060
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	647
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	146
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	304
	CONTRACTOR TOTAL				450
	INTERSCIENCE INC	New York	ARMY	RDTE/Physical Sciences - Exploratory Devel	180
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Exploratory Devel	896
	LORAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	619
	MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	79
	MASSACHUSETTS TECH LAB	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	151
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	225
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Physical Sciences - Exploratory Devel	113
	MISSION GORGE CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	70
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel	1,748
	MOSES HARRY E APPLIMATH CO	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	197
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Exploratory Devel	1,120
	NAVSYS CORPORATION	Colorado	USAF	RDTE/Physical Sciences - Exploratory Devel	240
	NORTH CAROLINA STATE UNIV	N Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	35
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	770

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	NORTHWEST RESEARCH ASSOC JV	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	169
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Exploratory Devel	501
	OREGON STATE UNIVERSITY	Oregon	USAF	RDTE/Physical Sciences - Exploratory Devel	120
	PACIFIC SIERRA RESEARCH CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	202
	PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	35
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	458
	PENNSYLVANIA STATE UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	68
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	162
	PHYSICS MATHEMATICS & COMPUTER	New Mexico	NAVY	RDTE/Physical Sciences - Exploratory Devel	108
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	441
	RADEX INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	179
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	72
	RESEARCH SUPPORT INSTRUMENTS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	352
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	ROYAL NORWEGIAN COUNCIL	NORWAY	USAF	RDTE/Physical Sciences - Exploratory Devel	443
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	186
	SOUTHEASTERN CTR FOR	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	575
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	185
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	55
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	840
	TASC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	59
	TRUSTEES COLUMBIA UNIV	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	202
	UES INC	Ohio	USAF	RDTE/Physical Sciences - Exploratory Devel	41

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AJ12 (CONTINUED)

ULTRAMET	California	USAF	RDTE/Physical Sciences - Exploratory Devel		130
UNITED KINGDOM AUTOMIC	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel		57
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel		245
UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Physical Sciences - Exploratory Devel		100
UNIVERSITY OF EDINBURG	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel		165
UNIVERSITY OF IOWA THE	Iowa	USAF	RDTE/Physical Sciences - Exploratory Devel		78
UNIVERSITY OF MARYLAND SYSTEM	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel		267
UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		418
UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Exploratory Devel		860
UNIVERSITY OF TEXAS AT DALLAS	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel		96
	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel		204
CONTRACTOR TOTAL					300
UNIVERSITY OF UTAH	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel		50
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Exploratory Devel		127
UNIVERSITY OF WYOMING	Wyoming	USAF	RDTE/Physical Sciences - Exploratory Devel		30
UTAH STATE UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		550
	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel		4,774
CONTRACTOR TOTAL					5,324
WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel		120
YAP ANALYTICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel		390
R&D TOTAL					35,158
AJ13 ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		424
ARGOSYSTEMS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		533
BALL CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm		64

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	BELL HELICOPTER TEXTRON INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	304
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	165
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	228
	CELCO INDUSTRIES INC	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	390
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	450
	CONDUCTUS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	524
	CRYO POWER ASSOCIATES	New Mexico	USAF	RDTE/Physical Sciences - Advanced Developm	100
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Physical Sciences - Advanced Developm	122
	E I C LABORATORIES INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	61
	ELISRA ELECTRONIC SYSTEMS LTD	ISRAEL	USAF	RDTE/Physical Sciences - Advanced Developm	300
	GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	235
	GUMBS ASSOCIATES INC	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	50
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Advanced Developm	85
	LASER PHOTONICS	New York	USAF	RDTE/Physical Sciences - Advanced Developm	250
	MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	133
	MATERIALS TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Advanced Developm	64
	MCDONNELL DOUGLAS CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	642
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm	148
	NATIONAL CENTRE TRIBOLOGY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	45
	NORTHWEST RESEARCH ASSOC JV	Washington	USAF	RDTE/Physical Sciences - Advanced Developm	152
	NUCLEAR METALS INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	745
	OPTIVISION INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	156
	PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	450
	PARKVIEW WORKS INC	Wisconsin	USAF	RDTE/Physical Sciences - Advanced Developm	187

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AJ13 (CONTINUED)

PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Physical Sciences - Advanced Developm	304
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	546
R J O ENTERPRISES INC	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	55
RESEARCH FOUNDN OF UN.V OF NY	New York	USAF	RDTE/Physical Sciences - Advanced Developm	362
RM; AEROSPACE CO INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	97
RMS TECHNOLOGIES INCORPORATED	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	485
ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Physical Sciences - Advanced Developm RDTE/Physical Sciences - Advanced Developm	100 244
STATE TOTAL				344
SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Advanced Developm	63
SPACE DATA CORPORATION	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	310
SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	100
SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	99
TRISTAN TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Advanced Developm	243
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	286
UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	319
UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	210
UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Advanced Developm	400
WENTWORTH INSTITUTE OF TECH	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	776
R&D TOTAL				12,007
AJ14 ANALYTIC SERVICES INC	Virginia	USAF	RDTE/Physical Sciences - Engineering Devel	22,365
AJ15 ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Physical Sciences - Operational Syste	59
ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Operational Syste	90
DIRECTOR LIFE SCIENCES CHEM	UNITED KIN	ARMY	RDTE/Physical Sciences - Operational Syste	250

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AJ15 (CONTINUED)					
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Operational Syste	49
	M/A-COM INC	Mass	ARMY	RDTE/Physical Sciences - Operational Syste	593
	P R B ASSOCIATES INC	Maryland	USAF	RDTE/Physical Sciences - Operational Syste	320
	R&D TOTAL				1,361
AJ16	A P A OPTICS INC	Minnesota	USAF	RDTE/Physical Sciences - Management & Supp	50
	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Physical Sciences - Management & Supp	305
	ALSCO ALUMINUM BUILDING PDTS	Mass	USAF	RDTE/Physical Sciences - Management & Supp	312
	C F D RESEARCH CORP	Alabama	USAF	RDTE/Physical Sciences - Management & Supp	369
	C V LARDEGRO	UNITED KIN	ARMY	RDTE/Physical Sciences - Management & Supp	284
	COMPUTER ENGINEERING ASSOC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	47
	F & H APPLIED ASSOCIATES INC	New Jersey	USAF	RDTE/Physical Sciences - Management & Supp	48
	GENERAL ATOMICS	California	USAF	RDTE/Physical Sciences - Management & Supp	200
	GRUMMAN AEROSPACE CORPORATION	Florida	USAF	RDTE/Physical Sciences - Management & Supp	500
	HIGH TECHNOLOGY CORPORATION	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	175
	HITITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Management & Supp	200
	HYPRES INC	New York	USAF	RDTE/Physical Sciences - Management & Supp	512
	INNOVA LABORATORIES	California	USAF	RDTE/Physical Sciences - Management & Supp	260
	LIOW & ASSOCIATES	Utah	USAF	RDTE/Physical Sciences - Management & Supp	250
	MASSACHUSETTS TECH LAB	Mass	USAF	RDTE/Physical Sciences - Management & Supp	429
	MICROTRONICS ASSOCIATES INC	Penn	USAF	RDTE/Physical Sciences - Management & Supp	50
	NETROLOGIC INC	California	USAF	RDTE/Physical Sciences - Management & Supp	303
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	50
	PHASEX CORPORATION	Mass	USAF	RDTE/Physical Sciences - Management & Supp	71
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ16 (CONTINUED)					
	POTOMAC PHOTONICS INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	281
	QUADRA ENGINEERING INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	49
	RAND CORPORATION	California	USAF	RDTE/Physical Sciences - Management & Supp	22,488
	S F A INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	49
	SAM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	551
	SANTA BARBARA FOCALPLANE	California	USAF	RDTE/Physical Sciences - Management & Supp	50
	SPACE QUALIFIED SYSTEMS CORP	D.C.	USAF	RDTE/Physical Sciences - Management & Supp	49-
	SPARTA INC	California	USAF	RDTE/Physical Sciences - Management & Supp	234
	SQM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	77
	TECHPLAN CORP	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	944
	TS INFOSYSTEMS INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	255
	UNIVERSITY OF SURREY	UNITED KIN	ARMY	RDTE/Physical Sciences - Management & Supp	30
	XEMET INC	Washington	USAF	RDTE/Physical Sciences - Management & Supp	271
	R&D TOTAL				29,694
AJ21	CIVILIZED SOFTWARE INC	Maryland	NAVY	RDTE/Math & Computer Sciences - Basic Rese	192
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	26
	R&D TOTAL				218
AJ22	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Math & Computer Sciences - Explor Dev	44
	EOS TECHNOLOGIES INC	Washington	NAVY	RDTE/Math & Computer Sciences - Explor Dev	419
	R&D TOTAL				463
AJ24	APPLIED PARALLEL SYSTEMS	Maryland	NAVY	RDTE/Math & Computer Sciences - Engr Devel	200
AJ31	ROCK ENGRG CONSULTANTS	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	64
AJ32	ANDREWS & SCHOFIELD ASSOCIATES	UNITED KIN	ARMY	RDTE/Environmental Sciences - Explor Devel	98
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Environmental Sciences - Explor Devel	783

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ32 (CONTINUED)					
	ROYAL MILITARY COLLEGE OF SCIE	UNITED KIN	ARMY	RDTE/Environmental Sciences - Explor Devel	33
	TNO INSTITUTE FOR PERCEPTION	NETHERLAND	ARMY	RDTE/Environmental Sciences - Explor Devel	70
	R&D TOTAL				984
AJ33	UNIVERSITY COLLEGE OF GALWAY	IRAN	ARMY	RDTE/Environmental Sciences - Advanced Dev	91
AJ35	ANDREWS & SCHOFIELD ASSOCIATES	UNITED KIN	ARMY	RDTE/Environmental Sciences - Op Systems D	95
	CORK GEOTECHNICS LTD	IRAN	ARMY	RDTE/Environmental Sciences - Op Systems D	60
	HEWLETT-PACKARD COMPANY	California	USAF	RDTE/Environmental Sciences - Op Systems D	65
	LUND INSTITUTE OF TECHNOLOGY	SWEDEN	ARMY	RDTE/Environmental Sciences - Op Systems D	54
	R&D TOTAL				274
AJ41	A A I CORPORATION	Maryland	USAF	RDTE/Engineering Sciences - Basic Research	188-
	HORIZONS TECHNOLOGY INC	Mass	USAF	RDTE/Engineering Sciences - Basic Research	48
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	41
	RAMOT UNIVERSITY	ISRAEL	ARMY	RDTE/Engineering Sciences - Basic Research	32
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Engineering Sciences - Basic Research	58
	THAMES POLYTECHNIC	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	457
	UNIVERSITY OF BRISTOL	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	73
	UNIVERSITY OF SURREY	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	31
	R&D TOTAL				552
AJ42	FRAUNHAFER GESELLSCHAFT ZUR FOE	GERMANY	ARMY	RDTE/Engineering Sciences - Exploratory De	60
	FRAUNHOFER GESELLSCHAFT ZUR FO	GERMANY	ARMY	RDTE/Engineering Sciences - Exploratory De	28
	LOTUS CARS LTD. LOTUS ENGINEE	UNITED KIN	ARMY	RDTE/Engineering Sciences - Exploratory De	350
	SUPERIOR ELECTRIC CO THE	Conn	ARMY	RDTE/Engineering Sciences - Exploratory De	250
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Engineering Sciences - Exploratory De	32
	R&D TOTAL				720

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ43	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Engineering Sciences - Advanced Devel	32
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Engineering Sciences - Advanced Devel	340
	R&D TOTAL				372
AJ44	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Engineering Sciences - Engineering De	1,093
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Engineering Sciences - Engineering De	100
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Engineering Sciences - Engineering De	1,195
	R&D TOTAL				2,388
AJ45	NAPIER	UNITED KIN	ARMY	RDTE/Engineering Sciences - Operational Sy	30
AJ46	A & L SHATTO INC	Maryland	ARMY	RDTE/Engineering Sciences - Management & S	602
	ACCURATE AUTOMATION CORP	Tennessee	USAF	RDTE/Engineering Sciences - Management & S	590
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Engineering Sciences - Management & S	190
	CENTER FOR REMOTE SENSING	California	USAF	RDTE/Engineering Sciences - Management & S	53
	COSOFT DESIGNS INC	California	USAF	RDTE/Engineering Sciences - Management & S	73
	FIBER & SENSOR TECHNOLOGIES	Virginia	USAF	RDTE/Engineering Sciences - Management & S	49
	METROLASER	California	USAF	RDTE/Engineering Sciences - Management & S	400
	PHOTONICS, INC.	Penn	USAF	RDTE/Engineering Sciences - Management & S	50
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Engineering Sciences - Management & S	61
	SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Engineering Sciences - Management & S	201
	UNIVERSITY OF MANCHESTER INSTI	UNITED KIN	ARMY	RDTE/Engineering Sciences - Management & S	65
	VATELL CORPORATION	Virginia	USAF	RDTE/Engineering Sciences - Management & S	172
	R&D TOTAL				2,505
AJ51	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Life Sciences - Basic Research	50
	ST. GEORGE'S HOSPITAL MEDICAL	UNITED KIN	ARMY	RDTE/Life Sciences - Basic Research	130
	UNIVERSITY OF NOTTINGHAM	UNITED KIN	ARMY	RDTE/Life Sciences - Basic Research	60
	R&D TOTAL				240
AJ61	UNIVERSIDADE NOVA DE LISBOA	PORTUGAL	ARMY	RDTE/Psychological Sciences - Basic Resear	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ61 (CONTINUED)					
	UNIVERSITY OF HAIFA	ISRAEL	ARMY	RDTE/Psychological Sciences - Basic Resear	35
	UNIVERSITY OF SURREY	UNITED KIN	ARMY	RDTE/Psychological Sciences - Basic Resear	47
	R&D TOTAL				132
AJ62	MAFAT DEPT OF BEHAVIORAL SCIEN	ISRAEL	ARMY	RDTE/Psychological Sciences - Exploratory	45
AJ63	ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Psychological Sciences - Advanced Dev	370
AJ65	MAGNAVOX GOVT & INDSTR ELCTR	Indiana	NAVY	RDTE/Psychological Sciences - Operational	167
AJ71	RESEARCH FOUNDATION	New York	ARMY	RDTE/Social Sciences - Basic Research	120
AJ91	METROLASER	California	USAF	RDTE/Other Sciences - Basic Research	231
	SCIENCE APPLICATIONS INTL CORP	Georgia	ARMY	RDTE/Other Sciences - Basic Research	122
	TEXAS A & M RESEARCH FDN	Texas	OCE	RDTE/Other Sciences - Basic Research	180
	R&D TOTAL				533
AJ92	ATMOSPHERIC INSTRUMENTATION	Colorado	ARMY	RDTE/Other Sciences - Exploratory Developm	320
	DEVELOPMENT SCIENCES INC	Mass	USAF	RDTE/Other Sciences - Exploratory Developm	42
	INRAD INC	New Jersey	NAVY	RDTE/Other Sciences - Exploratory Developm	259
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Sciences - Exploratory Developm	60
	R&D TOTAL				680
AJ94	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Other Sciences - Engineering Developm	195
AJ95	BOEING COMPANY THE	Texas	NAVY	RDTE/Other Sciences - Operational Systems	223
	UNIVERSAL SYSTEMS & TECHNOLOGY	Virginia	NAVY	RDTE/Other Sciences - Operational Systems	30
	R&D TOTAL				253
AK16	GIUSEPPE MARMOLO	ITALY	NAVY	RDTE/Housing - Management & Support	96
AN11	JACKSON HENRY M FOUNDATION	Maryland	ARMY	RDTE/Biomedical - Basic Research	2,412
	S R A TECHNOLOGIES INC	Virginia	ARMY	RDTE/Biomedical - Basic Research	2,740
	R&D TOTAL				5,152

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AN16	BIODYNAMIC RESEARCH CORP	Texas	USAF	RDTE/Biomedical - Management & Support	\$ 297
	ODETICS INC	California	USAF	RDTE/Biomedical - Management & Support	52
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Biomedical - Management & Support	783
		Virginia	USAF	RDTE/Biomedical - Management & Support	7,000
	CONTRACTOR TOTAL				7,783
	R&D TOTAL				8,133
AN41	FUNDACION MEXICAN PARA LA SALU	MEXICO	ARMY	RDTE/Health Services - Basic Research	136
AN46	FOUNDATION HEALTH CORPORATION	California	ARMY	RDTE/Health Services - Management & Support	761,262
AN62	SOUTH FLORIDA DRUG RESEARCH	Florida	ARMY	RDTE/Rehabilitative Engineering-Explor Dev	74
AN81	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Aids Research - Basic Research	465
AN83	S R A TECHNOLOGIES INC	Maryland	ARMY	RDTE/Aids Research - Advanced Development	1,000
AN91	ADEZA BIOMEDICAL CORP	California	ARMY	RDTE/Other Medical - Basic Research	250-
	BAYLOR COLLEGE OF MEDICINE	Texas	ARMY	RDTE/Other Medical - Basic Research	368
	BELMONT INSTRUMENT CORPORATION	Mass	ARMY	RDTE/Other Medical - Basic Research	112
	BIO METRIC SYSTEMS INC	Minnesota	ARMY	RDTE/Other Medical - Basic Research	103
	BIOTEK INC	Mass	ARMY	RDTE/Other Medical - Basic Research	153
	BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Basic Research	76
	CALIFORNIA INST OF TECHNOLOGY	California	ARMY	RDTE/Other Medical - Basic Research	177
	CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Medical - Basic Research	68
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical - Basic Research	99
	CHEM.RESEARCH LABS. OF AMERICA	Rhode Isld	ARMY	RDTE/Other Medical - Basic Research	50
	CORVAS INTERNATIONAL INC	California	ARMY	RDTE/Other Medical - Basic Research	229
	DELPHI PHARMACEUTICALS INC	Mass	ARMY	RDTE/Other Medical - Basic Research	50-
	DYNAGEN INC	Mass	ARMY	RDTE/Other Medical - Basic Research	98
	EASTERN ANALYTICAL, INC.	Maryland	ARMY	RDTE/Other Medical - Basic Research	50
	ELCATECH INC	N Carolina	ARMY	RDTE/Other Medical - Basic Research	66

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)					
	ENZYME TECHNOLOGY RES GROUP	N Carolina	ARMY	RDTE/Other Medical - Basic Research	112
	FLOW INC	Oregon	ARMY	RDTE/Other Medical - Basic Research	111
	GENELABS TECHNOLOGIES INC	California	ARMY	RDTE/Other Medical - Basic Research	112
	GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Basic Research	254
	HAHNEMANN UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Basic Research	194
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Basic Research	550
	HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Basic Research	210
	HERNER & COMPANY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	372
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Basic Research	513
	JARVIS CHRISTIAN COLLEGE	Texas	ARMY	RDTE/Other Medical - Basic Research	164
	LIFE TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	53
	MASSACHUSETTS INST OF TECHNOLOG	Mass	ARMY	RDTE/Other Medical - Basic Research	46-
	MEDIMMUNE INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	138
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Basic Research	182
	OGDEN BIOSERVICES CORPORATION	Maryland	ARMY	RDTE/Other Medical - Basic Research	1,380
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Medical - Basic Research	170
	OPHIDIAN PHARMACEUTICALS INC	Wisconsin	ARMY	RDTE/Other Medical - Basic Research	80
	ORD INC	N.H.	ARMY	RDTE/Other Medical - Basic Research	100
	OU DERMATOLOGY CLINIC	Oklahoma	ARMY	RDTE/Other Medical - Basic Research	105
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Medical - Basic Research	110
	PIERCE JOHN B LABORATORY	Conn	NAVY	RDTE/Other Medical - Basic Research	34
	PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Medical - Basic Research	77
	QUESTECH INC	Texas	USAF	RDTE/Other Medical - Basic Research	349
	RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research	183

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)					
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Basic Research	344
	ROCHESTER PHOTONICS CORP	New York	ARMY	RDTE/Other Medical - Basic Research	171
	S R A TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	540
		Virginia	ARMY	RDTE/Other Medical - Basic Research	475
	CONTRACTOR TOTAL				1,015
	SARCOS RESEARCH CORP.	Utah	ARMY	RDTE/Other Medical - Basic Research	50
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Medical - Basic Research	750
	SEATTLE BIOMEDICAL RES INST	Washington	ARMY	RDTE/Other Medical - Basic Research	63
	SENSOR PLUS, INC.	New York	ARMY	RDTE/Other Medical - Basic Research	49
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Basic Research	80
	SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Basic Research	208
	STEADFAST INCORPORATED	Mass	ARMY	RDTE/Other Medical - Basic Research	34
	STERIS CORP.	Ohio	ARMY	RDTE/Other Medical - Basic Research	50
	STERIODS LTD	Illinois	ARMY	RDTE/Other Medical - Basic Research	138
	SYMBIOTECH, INC.	Conn	ARMY	RDTE/Other Medical - Basic Research	50
	TECH QUEST, INC.	Conn	ARMY	RDTE/Other Medical - Basic Research	50
	TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Other Medical - Basic Research	167
	UNIV. OF TX HEALTH SCIENCE CTR	Texas	ARMY	RDTE/Other Medical - Basic Research	79
	UNIVERSITY OF ALA AT BRMNGHAM	Alabama	ARMY	RDTE/Other Medical - Basic Research	258
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Basic Research	289
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical - Basic Research	315
	UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Other Medical - Basic Research	18,000
	UNIVERSITY OF HAWAII	Hawaii	ARMY	RDTE/Other Medical - Basic Research	30-
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Basic Research	212-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN91 (CONTINUED)					
	UNIVERSITY OF LOUISVILLE	Kentucky	ARMY	RDTE/Other Medical - Basic Research	128
	UNIVERSITY OF MARYLAND SYSTEM	Maryland	ARMY	RDTE/Other Medical - Basic Research	172
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical - Basic Research	496
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Basic Research	235
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Basic Research	6,415
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Medical - Basic Research	90-
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Basic Research	249
	UNIVERSITY OF WESTERN ONTARIO	CANADA	ARMY	RDTE/Other Medical - Basic Research	61-
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Basic Research	118
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Medical - Basic Research	50
	VIPONT PHARMACEUTICAL INC	Colorado	ARMY	RDTE/Other Medical - Basic Research	115
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Basic Research	98-
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Basic Research	181
	WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Medical - Basic Research	347
	R&D TOTAL				37,029
AN92 AMERICAN INST BIOLOGCL SCIENCE					
	ASH STEVENS INC	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme	529
	BEILINSON MEDICAL CENTER	Michigan	ARMY	RDTE/Other Medical - Exploratory Developme	132
	BIO-TECHNOLOGY GENERAL CORP	ISRAEL	ARMY	RDTE/Other Medical - Exploratory Developme	70
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Medical - Exploratory Developme	162
	CITY UNIVERSITY OF NEW YORK	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	36
	DUKE UNIVERSITY	New York	ARMY	RDTE/Other Medical - Exploratory Developme	30-
	DUPHAR BV	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	79
	EG&G SPECIAL PROJECTS	NETHERLAND	ARMY	RDTE/Other Medical - Exploratory Developme	106-
		New Mexico	ARMY	RDTE/Other Medical - Exploratory Developme	879

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	FRANKLIN INSTITUTE THE	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	82-
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Exploratory Developme	510
	HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical - Exploratory Developme	204
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Exploratory Developme	280
	JAYCOR	California	ARMY	RDTE/Other Medical - Exploratory Developme	469
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	501
	MEDICAL COLLEGE OF PA	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	70
	N E D H CORP	Mass	ARMY	RDTE/Other Medical - Exploratory Developme	450
	OHIO WESLEYAN UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	50
	ORBIS SCIENTIFIC INC	Florida	ARMY	RDTE/Other Medical - Exploratory Developme	121
	PRIME TECHNOLOGY INC	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	150
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Exploratory Developme	50
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	110
	RESEARCH FOUNDN OF UNIV OF NY	New York	ARMY	RDTE/Other Medical - Exploratory Developme	347
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	588
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	513
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	856
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Exploratory Developme	198
	TEL AVIV UNIVERSITY	ISRAEL	ARMY	RDTE/Other Medical - Exploratory Developme	85
	THOMAS JEFFERSON UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	244
	UES INC	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	248
		Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	44
	CONTRACTOR TOTAL				291
	UNIV OF GA RESEARCH FOUNDATION	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme	96

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	UNIVERSITY NC AT CHAPEL HILL	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	323
	UNIVERSITY OF ALA AT BRMNGHAM	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	60
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	33
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Exploratory Developme	282
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Exploratory Developme	109
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	167
	UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Medical - Exploratory Developme	43
	UNIVERSITY OF KY RESCH FDTN	Michigan	ARMY	RDTE/Other Medical - Exploratory Developme	140
	UNIVERSITY OF MARYLAND SYSTEM	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	150
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical - Exploratory Developme	13
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical - Exploratory Developme	550
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Exploratory Developme	68
	UNIVERSITY OF NORTH DAKOTA	N Dakota	ARMY	RDTE/Other Medical - Exploratory Developme	156
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Other Medical - Exploratory Developme	120
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Exploratory Developme	75
	UNIVERSITY OF THE PACIFIC	California	ARMY	RDTE/Other Medical - Exploratory Developme	28-
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	183
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Exploratory Developme	51
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	86
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Exploratory Developme	199
	R&D TOTAL				10,634
AN93	ADVANCED BIOSCIENCE LABS INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	179
	ASH STEVENS INC	Michigan	ARMY	RDTE/Other Medical - Advanced Development	386
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Medical - Advanced Development	5,200

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AN93 (CONTINUED)						
	BIOTECH RESEARCH LABORATORIES	Maryland	ARMY	RDTE/Other Medical - Advanced Development		273-
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Other Medical - Advanced Development		550
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Medical - Advanced Development		59-
	DYNACORP	Maryland	ARMY	RDTE/Other Medical - Advanced Development		1,442-
	EAGLE PICHER INDUSTRIES INC	Kansas	ARMY	RDTE/Other Medical - Advanced Development		419-
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Medical - Advanced Development		1,612
	EVAPORATED COATINGS INC	Penn	ARMY	RDTE/Other Medical - Advanced Development		33
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development		269
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Advanced Development		150
	HAZLETON WASHINGTON INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development		254
	HUNTINGDON RESEARCH CENTER	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development		369
	JOHN BROWN ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Medical - Advanced Development		47
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development		27
	MDT CORPORATION	New York	ARMY	RDTE/Other Medical - Advanced Development		33-
	MEDIMMUNE INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development		152
	MICHIGAN STATE OF	Michigan	ARMY	RDTE/Other Medical - Advanced Development		347-
	MICROPROBE CORP	Washington	ARMY	RDTE/Other Medical - Advanced Development		121
	MODEL TECH. INC.	Mass	ARMY	RDTE/Other Medical - Advanced Development		119
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Medical - Advanced Development		117
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development		121
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Advanced Development		176
	PORTON INTERNATIONAL INC	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development		5,408
	PROMED TRADING, S.A.	PANAMA	ARMY	RDTE/Other Medical - Advanced Development		210
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Advanced Development		210

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AN93 (CONTINUED)

SALK INST FOR BLGICAL STUDIES	Penn	ARMY	RDTE/Other Medical	- Advanced Development	\$ 10,021
SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical	- Advanced Development	277
SHERIKON INC	Maryland	ARMY	RDTE/Other Medical	- Advanced Development	2,243
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical	- Advanced Development	69
SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical	- Advanced Development	217
SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical	- Advanced Development	450
STARKS ASSOCIATES INC	New York	ARMY	RDTE/Other Medical	- Advanced Development	359
STERIMATICS CORPORATION	Mass	ARMY	RDTE/Other Medical	- Advanced Development	6,240
UNIVERSITY OF ALA AT BRMNGHAM	Alabama	ARMY	RDTE/Other Medical	- Advanced Development	326
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical	- Advanced Development	294
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical	- Advanced Development	732
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical	- Advanced Development	155
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical	- Advanced Development	136
UNIVERSITY OF SOUTH FLORIDA	Florida	ARMY	RDTE/Other Medical	- Advanced Development	76
UNIVERSITY OF TEXAS SAN ANTONI	Texas	ARMY	RDTE/Other Medical	- Advanced Development	35-
UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Medical	- Advanced Development	65
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical	- Advanced Development	60
UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Medical	- Advanced Development	201
WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical	- Advanced Development	129
R&D TOTAL					35,151
AN94 DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical	- Engineering Developme	114
GULL LABORATORIES INC	Utah	ARMY	RDTE/Other Medical	- Engineering Developme	48-
ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical	- Engineering Developme	36
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical	- Engineering Developme	434

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
.N94 (CONTINUED)					
	UNIV OF MARYLAND AT BALTIMORE	Maryland	ARMY	RDTE/Other Medical - Engineering Developme	\$ 829
		CHILE	ARMY	RDTE/Other Medical - Engineering Developme	112
	CONTRACTOR TOTAL				941
R&D TOTAL					1,476
AN95	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Medical - Operational Systems D	471
AP53	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	427
AP91	BIOSONICS INC	Washington	OCE	RDTE/Natural Resources-Other-Basic Researc	60
AR11	BECHTEL NATIONAL INC	California	USAF	RDTE/Space - Aeronautics - Basic Research	480
	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Aeronautics - Basic Research	3,340
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Basic Research	3,340
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Space - Aeronautics - Basic Research	492
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space - Aeronautics - Basic Research	499
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Basic Research	350
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Aeronautics - Basic Research	4,154
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,830
	TRW INC	California	USAF	RDTE/Space - Aeronautics - Basic Research	350
R&D TOTAL					14,815
AR12	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Space - Aeronautics - Exploratory Dev	180
AR13	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Space - Aeronautics - Advanced Develo	100
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space - Aeronautics - Advanced Develo	1,586
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Space - Aeronautics - Advanced Develo	110
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Space - Aeronautics - Advanced Develo	153
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Advanced Develo	1,231
	TRW INC	California	USAF	RDTE/Space - Aeronautics - Advanced Develo	305

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					3,485
AR16	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Aeronautics - Management & Su	2,937 -
AR21	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Space-Science Applications-Basic Rese	2,750
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Science Applications-Basic Rese	375
R&D TOTAL					3,125
AR22	BALL CORPORATION	Colorado	USAF	RDTE/Space-Science Applications-Explor Dev	129
	BOEING COMPANY THE	Washington	USAF	RDTE/Space-Science Applications-Explor Dev	195
R&D TOTAL					324
AR23	AEROJET	California	USAF	RDTE/Space-Science Applications-Advanced D	2,160
	AMERICAN GNC CORPORATION	California	USAF	RDTE/Space-Science Applications-Advanced D	50
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Advanced D	52,000
	TECHNO SCIENCES INC	Maryland	USAF	RDTE/Space-Science Applications-Advanced D	64
	TRW INC	California	USAF	RDTE/Space-Science Applications-Advanced D	49,560
R&D TOTAL					103,834
AR24	COLSA INC	Texas	ARMY	RDTE/Space-Science Applications-Engineerin	245
AR25	AEROJET	California	USAF	RDTE/Space-Science Applications-Op Systems	40
	AEROSPACE CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	253,455
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space-Science Applications-Op Systems	1,966
	TRW INC	California	USAF	RDTE/Space-Science Applications-Op Systems	6,474
R&D TOTAL					261,935
AR26	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Space-Science Applications-Mgmt & Sup	57
AR32	AEROJET	California	USAF	RDTE/Space Flight - Exploratory Developmen	75
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Exploratory Developmen	268
R&D TOTAL					343
AR33	ENGINEERING TECHNOLOGIES INC	Virginia	USAF	RDTE/Space Flight - Advanced Development	1,101

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR33	(CONTINUED)				
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Advanced Development	118,843
	R&D TOTAL				119,944
AR34	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space Flight - Engineering Development	50,649
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Engineering Development	49,170
	ORBITAL SCIENCES CORPORATION	Virginia	USAF	RDTE/Space Flight - Engineering Development	213
	R&D TOTAL				100,033
AR35	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space Flight - Operations Systems Dev	2,290
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space Flight - Operations Systems Dev	16-
	R&D TOTAL				2,273
AR41	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	2,961
AR42	AERO OPTICS INC	California	USAF	RDTE/Space Op - Applied Research & Expl De	500
	JJM SYSTEMS INC	Penn	NAVY	RDTE/Space Op - Applied Research & Expl De	1,430
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Applied Research & Expl De	1,450
	R&D TOTAL				3,380
AR43	PROSPECTIVE COMPUTER ANALYSTS	New York	NAVY	RDTE/Space Op - Trckng & Data Acq-Advanced	290
	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Space Op - Trckng & Data Acq-Advanced	108
	R&D TOTAL				398
AR44	BENDIX FIELD ENGINEERING CORP	D.C.	NAVY	RDTE/Space Op - Trckng & Data Acq-Engineer	210
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	17,043
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Space Op - Trckng & Data Acq-Engineer	51
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	256
	R&D TOTAL				17,559
AR45	AEROJET	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	1,319
	CINCINNATI ELECTRONICS CORP	Ohio	NAVY	RDTE/Space Op-Trckng & Data Acq-Op Systems	259

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR45	(CONTINUED)				
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Space Op-Trckng & Data Acq-Op Systems	1,562
	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	23,037
		Maryland	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	119
	CONTRACTOR TOTAL				23,156
	LITTON SYSTEMS INC	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	615
	R&D TOTAL				26,910
	AR46 DYNACORP	New Mexico	ARMY	RDTE/Space Op-Tracking & Data Acq-Mgmt & S	79-
	AR61 LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Station-Basic Research	861
	AR62 AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Space-Station-Exploratory Development	590
	AR63 SHERMAN M SELTZER	Alabama	USAF	RDTE/Space-Station-Advanced Development	50
	AR64 MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Space-Station-Engineering Development	2,274
	AR91 LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Basic Research	4,164
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Basic Research	4,124
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Basic Research	4,150
	TRW INC	California	USAF	RDTE/Space - Other - Basic Research	4,166
	R&D TOTAL				16,603
	AR92 SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Space - Other - Exploratory Developme	298
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	11,724
	R&D TOTAL				12,022
	AR93 LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Advanced Development	300
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Advanced Development	6,615
	SPARTA INC	California	USAF	RDTE/Space - Other - Advanced Development	7,301
	R&D TOTAL				14,216
	AR94 LORAL VOUGHT SYSTEMS	Texas	USAF	RDTE/Space - Other - Engineering Developme	6,420-

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR95	SPACE APPLICATIONS CORPORATION	California	USAF	RDTE/Space - Other - Operational Systems D	10,738
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Space - Other - Operational Systems D	47
	R&D TOTAL				10,785
AR96	ATMOSPHERIC SIMULATION TSTG RES	Colorado	USAF	RDTE/Space - Other - Management & Support	110
	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space - Other - Management & Support	272
	ELECTRO MAGNETIC APPLICATION	Colorado	USAF	RDTE/Space - Other - Management & Support	451
	ENGINEERING TECHNOLOGIES INC	Virginia	USAF	RDTE/Space - Other - Management & Support	258
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	33-
	INDEPENDENT RISK ASSESSMENT	California	USAF	RDTE/Space - Other - Management & Support	299
	INNOVATIVE INFORMATION SYS	California	USAF	RDTE/Space - Other - Management & Support	548
	MOUNTAIN OPTech INC	Colorado	USAF	RDTE/Space - Other - Management & Support	566
	NAVSYN CORPORATION	Colorado	USAF	RDTE/Space - Other - Management & Support	241
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Space - Other - Management & Support	415
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Space - Other - Management & Support	175
	TECHNOMICS INC	California	USAF	RDTE/Space - Other - Management & Support	102
	TRW INC	California	USAF	RDTE/Space - Other - Management & Support	1,105-
	UNIVERSITY TECHNOLOGISTS INC	Oklahoma	USAF	RDTE/Space - Other - Management & Support	199
	R&D TOTAL				2,495
AS11	SCIENCE APPLICATIONS INTL CORP	Virginia	NAVY	RDTE/Transportation - Air - Basic Research	573
AS15	LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Transportation - Air - Op Systems Dev	7,287
AS22	OPTICS 1 INC	California	NAVY	RDTE/Transportation - Motor Veh - Explor D	50
AS24	HODGES TRANSPORTATION INC	Nevada	NAVY	RDTE/Transportation - Motor Veh - Engineer	296
AS44	FMC CORPORATION	California	NAVY	RDTE/Transportation - Marine - Engineering	1,315
AS92	ORINCON CORPORATION	California	NAVY	RDTE/Transportation - Other - Exploratory	50
AT14	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev	126

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AT14 (CONTINUED)					
	SOUTHWEST MOBILE SYSTEMS CORP	Missouri	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev	\$ 6,090
	R&D TOTAL				6,216
AT21	DYNAMIC RESEARCH INC	Alabama	ARMY	RDTE/Trans - Human Factors - Basic Researc	846
		Mass	ARMY	RDTE/Trans - Human Factors - Basic Researc	50
	CONTRACTOR TOTAL				896
AT32	ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Trans - Navigational Aids - Explor De	196
	DYNAMIC RESEARCH INC	Alabama	ARMY	RDTE/Trans - Navigational Aids - Explor De	407
	R&D TOTAL				603
AT35	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Trans - Navigational Aids - Op System	6,481
AT96	BUDGET RENT A CAR	BAHRAIN	NAVY	RDTE/Trans - Other - Management & Support	132
AV72	METALWORKING TECHNOLOGY INC	Penn	NAVY	RDTE/Mining - Metallurgical - Exploratory	1,200
AV92	LOCUS INC	Penn	NAVY	RDTE/Other Mining Activities - Exploratory	30
AZ11	3M	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re	421
	A & T SYSTEMS INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	1,302
	ACADEMY APPLIED SCIENCE INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	827
	ADCOM SYSTEMS TECH INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	57
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	143
	ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	83
	ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	74
	ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other Research & Development-Basic Re	250
	AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	269
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	113
			NAVY	RDTE/Other Research & Development-Basic Re	59
	STATE TOTAL				172

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$	
AZ11	(CONTINUED)					
	AEROVIRONMENT INC	California	NAVY	RDTE/Other Research & Development-Basic Re		27
	AETECH INC	California	USAF	RDTE/Other Research & Development-Basic Re		489
	ALBANY INTERNATIONAL CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re		57
	ALFORD RGRS CLILMORE CONCEPTS	Florida	OCE	RDTE/Other Research & Development-Basic Re		84
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		258
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		30,933
	ALLISON H S INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		223
	AMERICAN GNC CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re		50
	AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		91
	AMERICAN SCIENTIFIC CORP	Miss	ARMY	RDTE/Other Research & Development-Basic Re		90
			OCE	RDTE/Other Research & Development-Basic Re		674
	STATE TOTAL					764
		S Carolina	OCE	RDTE/Other Research & Development-Basic Re		90
		Texas	OCE	RDTE/Other Research & Development-Basic Re		108
		Virginia	OCE	RDTE/Other Research & Development-Basic Re		40
		Wisconsin	OCE	RDTE/Other Research & Development-Basic Re		27
	CONTRACTOR TOTAL					1,029
	AMERICAN TELEPHONE & TELG CO	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		346
	AMERIND INCORPORATED	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		250
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Research & Development-Basic Re		191
	ANALYTIC POWER CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re		133
	ANALYTIC POWER CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		260
	ANATECH RESEARCH CORP	California	OCE	RDTE/Other Research & Development-Basic Re		32
	APA OPTICS INC	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		50
	APPLIED BIOMATHEMATICS INC	New York	OCE	RDTE/Other Research & Development-Basic Re		84

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	SI/CNTRY	DEPT	-R&D DESCRIPTION-	
AZ11 (CONTINUED)					
	APPLIED RESEARCH & ANALYSIS	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	\$ 30
	APPLIED RESEARCH ASSOC INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	55
		New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	501
	CONTRACTOR TOTAL				556
	APPLIED RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	647
	APPLIED TECHNOLOGY ASSOCIATES	Florida	ARMY	RDTE/Other Research & Development-Basic Re	48
	APPLIED THEORY INC	California	ARMY	RDTE/Other Research & Development-Basic Re	135
	ARCON CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re	47
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	140
	ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	73
	ARKANSAS UNIVERSITY OF	Arkansas	OCE	RDTE/Other Research & Development-Basic Re	27
	ASR INTERNATIONAL CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re	83
	ASTROPOWER INC	Delaware	NAVY	RDTE/Other Research & Development-Basic Re	50
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	60
			USAF	RDTE/Other Research & Development-Basic Re	585
	STATE TOTAL				645
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Basic Re	377
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	136
			OCE	RDTE/Other Research & Development-Basic Re	151
	STATE TOTAL				287
	AUGSBURG COLLEGE	Minnesota	USAF	RDTE/Other Research & Development-Basic Re	115
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	397
	B M T INTERNATIONAL INC	Maryland	OCE	RDTE/Other Research & Development-Basic Re	97
	BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	309
		California	ARMY	RDTE/Other Research & Development-Basic Re	680

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Operations and Reports

FISCAL YEAR 1992

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION

State	Agency	Program	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	FY 2044	FY 2045	FY 2046	FY 2047	FY 2048	FY 2049	FY 2050	FY 2051	FY 2052	FY 2053	FY 2054	FY 2055	FY 2056	FY 2057	FY 2058	FY 2059	FY 2060	FY 2061	FY 2062	FY 2063	FY 2064	FY 2065	FY 2066	FY 2067	FY 2068	FY 2069	FY 2070	FY 2071	FY 2072	FY 2073	FY 2074	FY 2075	FY 2076	FY 2077	FY 2078	FY 2079	FY 2080	FY 2081	FY 2082	FY 2083	FY 2084	FY 2085	FY 2086	FY 2087	FY 2088	FY 2089	FY 2090	FY 2091	FY 2092	FY 2093	FY 2094	FY 2095	FY 2096	FY 2097	FY 2098	FY 2099	FY 2100	FY 2101	FY 2102	FY 2103	FY 2104	FY 2105	FY 2106	FY 2107	FY 2108	FY 2109	FY 2110	FY 2111	FY 2112	FY 2113	FY 2114	FY 2115	FY 2116	FY 2117	FY 2118	FY 2119	FY 2120	FY 2121	FY 2122	FY 2123	FY 2124	FY 2125	FY 2126	FY 2127	FY 2128	FY 2129	FY 2130	FY 2131	FY 2132	FY 2133	FY 2134	FY 2135	FY 2136	FY 2137	FY 2138	FY 2139	FY 2140	FY 2141	FY 2142	FY 2143	FY 2144	FY 2145	FY 2146	FY 2147	FY 2148	FY 2149	FY 2150	FY 2151	FY 2152	FY 2153	FY 2154	FY 2155	FY 2156	FY 2157	FY 2158	FY 2159	FY 2160	FY 2161	FY 2162	FY 2163	FY 2164	FY 2165	FY 2166	FY 2167	FY 2168	FY 2169	FY 2170	FY 2171	FY 2172	FY 2173	FY 2174	FY 2175	FY 2176	FY 2177	FY 2178	FY 2179	FY 2180	FY 2181	FY 2182	FY 2183	FY 2184	FY 2185	FY 2186	FY 2187	FY 2188	FY 2189	FY 2190	FY 2191	FY 2192	FY 2193	FY 2194	FY 2195	FY 2196	FY 2197	FY 2198	FY 2199	FY 2200	FY 2201	FY 2202	FY 2203	FY 2204	FY 2205	FY 2206	FY 2207	FY 2208	FY 2209	FY 2210	FY 2211	FY 2212	FY 2213	FY 2214	FY 2215	FY 2216	FY 2217	FY 2218	FY 2219	FY 2220	FY 2221	FY 2222	FY 2223	FY 2224	FY 2225	FY 2226	FY 2227	FY 2228	FY 2229	FY 2230	FY 2231	FY 2232	FY 2233	FY 2234	FY 2235	FY 2236	FY 2237	FY 2238	FY 2239	FY 2240	FY 2241	FY 2242	FY 2243	FY 2244	FY 2245	FY 2246	FY 2247	FY 2248	FY 2249	FY 2250	FY 2251	FY 2252	FY 2253	FY 2254	FY 2255	FY 2256	FY 2257	FY 2258	FY 2259	FY 2260	FY 2261	FY 2262	FY 2263	FY 2264	FY 2265	FY 2266	FY 2267	FY 2268	FY 2269	FY 2270	FY 2271	FY 2272	FY 2273	FY 2274	FY 2275	FY 2276	FY 2277	FY 2278	FY 2279	FY 2280	FY 2281	FY 2282	FY 2283	FY 2284	FY 2285	FY 2286	FY 2287	FY 2288	FY 2289	FY 2290	FY 2291	FY 2292	FY 2293	FY 2294	FY 2295	FY 2296	FY 2297	FY 2298	FY 2299	FY 2300	FY 2301	FY 2302	FY 2303	FY 2304	FY 2305	FY 2306	FY 2307	FY 2308	FY 2309	FY 2310	FY 2311	FY 2312	FY 2313	FY 2314	FY 2315	FY 2316	FY 2317	FY 2318	FY 2319	FY 2320	FY 2321	FY 2322	FY 2323	FY 2324	FY 2325	FY 2326	FY 2327	FY 2328	FY 2329	FY 2330	FY 2331	FY 2332	FY 2333	FY 2334	FY 2335	FY 2336	FY 2337	FY 2338	FY 2339	FY 2340	FY 2341	FY 2342	FY 2343	FY 2344	FY 2345	FY 2346	FY 2347	FY 2348	FY 2349	FY 2350	FY 2351	FY 2352	FY 2353	FY 2354	FY 2355	FY 2356	FY 2357	FY 2358	FY 2359	FY 2360	FY 2361	FY 2362	FY 2363	FY 2364	FY 2365	FY 2366	FY 2367	FY 2368	FY 236
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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	188
		Utah	ARMY	RDTE/Other Research & Development-Basic Re	66
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	796
		Washington	ARMY	RDTE/Other Research & Development-Basic Re	156
			OCE	RDTE/Other Research & Development-Basic Re	47
		STATE TOTAL			203
		Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	99
		CANADA	ARMY	RDTE/Other Research & Development-Basic Re	51
					10,499
	BDM INTERNATIONAL INC	Florida	USAF	RDTE/Other Research & Development-Basic Re	117
		New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	1,896
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	649
					2,662
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	63
	BDM MANAGEMENT SERVICES CO	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	60
	BENDIX FIELD ENGINEERING CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	95
	BERKELEY RESEARCH ASSOCIATES	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	180
					275
		Alabama	ARMY	RDTE/Other Research & Development-Basic Re	50
	BIOELASTICS RESEARCH LTD	Penn	OCE	RDTE/Other Research & Development-Basic Re	32
	BIOSCIENCE INC	Wyoming	OCE	RDTE/Other Research & Development-Basic Re	45
	BORGMAN L E INC	Mass	USAF	RDTE/Other Research & Development-Basic Re	415
	BOSTON COLLEGE TRUSTEES OF	Arizona	NAVY	RDTE/Other Research & Development-Basic Re	50
	BREAUULT RESEARCH ORGANIZATION	Missouri	ARMY	RDTE/Other Research & Development-Basic Re	250
	BREWER SCIENCE INC				

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AZ11 (CONTINUED)

BRIDGE DIAGNOSTICS	Colorado	OCE	RDTE/Other Research & Development-Basic Re	\$	59
BRIDGE ELECTRONICS CO	Colorado	OCE	RDTE/Other Research & Development-Basic Re		58
BRIGHAM YOUNG UNIVERSITY	Utah	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		35 50
	STATE TOTAL				84
C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		285
C E S INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		252
C H A M OF NORTH AMERICA INC	Alabama	NAVY	RDTE/Other Research & Development-Basic Re		89
CALIF RESCH & TECHNOLOGY INC	California	ARMY	RDTE/Other Research & Development-Basic Re		1,243
CALIFORNIA INST OF TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re		211
CALIFORNIA RESEARCH & TECH	California	ARMY	RDTE/Other Research & Development-Basic Re		635
CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re		56
CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		240 997
	STATE TOTAL				1,237
CAPE COD RESEARCH INC	Mass	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		105 64
	STATE TOTAL				169
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re		760
CARVER RESH F TSKG UNV	Alabama	ARMY	RDTE/Other Research & Development-Basic Re		123
CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		87
CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		90
CENTURY COMPUTING INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		50
CERCOM INC	California	ARMY	RDTE/Other Research & Development-Basic Re		220
CHANCE JOHN E & ASSOCIATES	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		223

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AZ11 (CONTINUED)

CHAPMAN RAY & ASSOCIATES	Miss	OCE	RDTE/Other Research & Development-Basic Re	\$	65
CHARLES RIVER ANALYTICS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		50
CHASE TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		73
CHICAGO BRIDGE & IRON CO	Illinois	NAVY	RDTE/Other Research & Development-Basic Re		66
CHOCTAW ENGINEERING CO INC	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		780
CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re		60
CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		39
CLARKSON UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		63
CLENSON UNIVERSITY	S Carolina	DLA OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		48 55
	STATE TOTAL				103
COBRA TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		180
COHERENT TECHNOLOGIES INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		50
COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		34
COLORADO STATE UNIVERSITY	Colorado	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		168 344
	STATE TOTAL				513
COLUMBIA-GREENE	New York	OCE	RDTE/Other Research & Development-Basic Re		40
COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		507
CONCORD ASSOCIATES INC	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re		139
COORS ADOLPH COMPANY	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		230
CORDIN COMPANY	Utah	ARMY	RDTE/Other Research & Development-Basic Re		86
CORNELL UNIVERSITY	New York	ARMY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		1,860 32 32
	STATE TOTAL				1,925

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AZ11 (CONTINUED)				
COVALENT ASSOCIATES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	\$ 31
D C W INDUSTRIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	41
DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	114
		USAF	RDTE/Other Research & Development-Basic Re	165
		STATE TOTAL		279
DAMASKOS INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re	76
DARTMOUTH COLLEGE	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	137
DATASONICS INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50
DAVIS TECHNOLOGIES INTL	Texas	NAVY	RDTE/Other Research & Development-Basic Re	184
DCS CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	50
DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	30
DEDICATED ELECTRONICS INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	368
DEFENSE GROUP INC	California	ARMY	RDTE/Other Research & Development-Basic Re	50
DIGITAL MAPPING & GRAPHICS	Missouri	OCE	RDTE/Other Research & Development-Basic Re	29
DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	288
DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	319
DREXEL UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	150
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	357
E I C LABORATORIES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	58
E-SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	127
EAST CAROLINA UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	35
EBASCO SERVICES INC	Washington	OCE	RDTE/Other Research & Development-Basic Re	204
ELECTRO-OPTIK CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	350
ELECTROKINETICS INC	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	93
ELECTRONETICS CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re	30

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AZ11 (CONTINUED)					
ENDOCHRONICS	Washington	OCe		RDTE/Other Research & Development-Basic Re	\$ 60
ENVIRONMENTAL RES INST OF MICH	Michigan	ARMY USAF		RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	94 55
STATE TOTAL					149
ENVIRONMENTAL DYNAMICS RES	Florida	OCe		RDTE/Other Research & Development-Basic Re	42
ENZYME TECHNOLOGY RES GROUP	N Carolina	NAVY		RDTE/Other Research & Development-Basic Re	50
EVANS HAMILTON INC	Texas	OCe		RDTE/Other Research & Development-Basic Re	706
FILTRATION TECHNOLOGY INC	N Carolina	NAVY		RDTE/Other Research & Development-Basic Re	38
FLIGHT TECHNOLOGY INTL	Virginia	ARMY		RDTE/Other Research & Development-Basic Re	146
FLORIDA ATLANTIC UNIVERSITY	Florida	OCe		RDTE/Other Research & Development-Basic Re	76
FLORIDA INST OF TECHNOLOGY	Florida	OCe		RDTE/Other Research & Development-Basic Re	26
FLORIDA MAXIMA CORP	Florida	ARMY		RDTE/Other Research & Development-Basic Re	91
FLOW ANALYSIS	New York	ARMY		RDTE/Other Research & Development-Basic Re	43
FLOW RESEARCH INC	Washington	ARMY OCe		RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	387 88
STATE TOTAL					475
FM TECHNOLOGIES INC	Virginia	NAVY		RDTE/Other Research & Development-Basic Re	181
FOSTER MILLER INC	Mass	ARMY		RDTE/Other Research & Development-Basic Re	251
FRONTIER TECHNOLOGY INC	California	USAF		RDTE/Other Research & Development-Basic Re	313
FU ASSOCIATES LIMITED	Virginia	ARMY		RDTE/Other Research & Development-Basic Re	50
GENERAL ATOMICS	California	NAVY		RDTE/Other Research & Development-Basic Re	100
GENERAL DYNAMICS CORPORATION	Michigan	ARMY		RDTE/Other Research & Development-Basic Re	2,451
	Texas	ARMY		RDTE/Other Research & Development-Basic Re	566
CONTRACTOR TOTAL					3,023
GENERAL ELECTRIC COMPANY	Mass	ARMY		RDTE/Other Research & Development-Basic Re	22,991

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AZ11 (CONTINUED)

CONTRACTOR TOTAL					\$	1,379
GENERAL RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		24,371	
		USAF	RDTE/Other Research & Development-Basic Re		500	
		USAF	RDTE/Other Research & Development-Basic Re		2,152	
STATE TOTAL						2,652
GENERAL TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		33-	
GENTEX CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Basic Re		73-	
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		1,649	
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		34	
		NAVY	RDTE/Other Research & Development-Basic Re		1,074	
STATE TOTAL						1,108
CONTRACTOR TOTAL						2,757
GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		51	
GEORGETOWN UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		484	
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		1,351	
GEORGIA STATE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		39	
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		1,311	
		NAVY	RDTE/Other Research & Development-Basic Re		239	
		DLA	RDTE/Other Research & Development-Basic Re		129	
STATE TOTAL						1,679
GEOSYSTEMS ENGINEERING INC	Kansas	ARMY	RDTE/Other Research & Development-Basic Re		300	
GINER INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		306	
GRUMMAN AEROSPACE CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		369	
	New York	ARMY	RDTE/Other Research & Development-Basic Re		78	
CONTRACTOR TOTAL						446
HADRON INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		122	

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AZ11 (CONTINUED)

HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	\$	155
HERCULES INCORPORATED	Utah	ARMY	RDTE/Other Research & Development-Basic Re		6,297
HI TECH SCIENTIFIC	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		91
HITTMAN MTLs & MED COMPONENTS	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		50
HNC INC	California	ARMY	RDTE/Other Research & Development-Basic Re		49
HORIZON TECHNOLOGY GROUP	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		130
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Basic Re		125
		NAVY	RDTE/Other Research & Development-Basic Re		303
					429
			STATE TOTAL		
HUGHES SIX CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re		197
HUMAN RSRCS RES ORGANIZATION	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		97
HYBRID NETWORKS, INC.	California	ARMY	RDTE/Other Research & Development-Basic Re		725
HYDROQUAL INC	New Jersey	OCE	RDTE/Other Research & Development-Basic Re		101
I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		55
I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		210
		DLA	RDTE/Other Research & Development-Basic Re		4,832
			STATE TOTAL		5,042
I MATH ASSOCIATES INC	Vermont	ARMY	RDTE/Other Research & Development-Basic Re		45
I S AEROSPACE	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		732
I-MATH ASSOCIATES INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re		73
ILLUSION ENGINEERING INC	California	ARMY	RDTE/Other Research & Development-Basic Re		190
IMPLANT SCIENCES CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		307
INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		280
INNOVATION ASSOCIATES	Michigan	NAVY	RDTE/Other Research & Development-Basic Re		50
INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Other Research & Development-Basic Re		78

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AZ11 (CONTINUED)

INTELLIGENT AUTOMATION INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	\$	50
INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		1,435
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re		160
IONWERKS	Texas	ARMY	RDTE/Other Research & Development-Basic Re		294
IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re		231
JAI ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		47
JAYCOR	California	OCE	RDTE/Other Research & Development-Basic Re		36
K V H INDUSTRIES INC	Rhode Isld	ARMY	RDTE/Other Research & Development-Basic Re		61
KBN ENGINEERING APPLIED SCIENCES	Florida	OCE	RDTE/Other Research & Development-Basic Re		70
KEVIN L. ERWIN CONSULTING	Florida	OCE	RDTE/Other Research & Development-Basic Re		30
KING CORP	Wyoming	OCE	RDTE/Other Research & Development-Basic Re		51
KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		366
		NAVY	RDTE/Other Research & Development-Basic Re		222
		STATE TOTAL			587
KOPIN CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		180
KULITE SEMICONDUCTOR PRODUCTS	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
L N K CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		49
LANGUAGE SYSTEMS INC	California	ARMY	RDTE/Other Research & Development-Basic Re		47
LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re		86
		OCE	RDTE/Other Research & Development-Basic Re		49
		STATE TOTAL			135
LIGHTING SCIENCES INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		125
LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Research & Development-Basic Re		97
LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Basic Re		98
LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		135

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LOCKHEED WESTERN EXPORT CO	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	\$	482
LOUISIANA STATE OF	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re		136
LOUISIANA STATE UNIV SYSTEM	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		234
LOUISIANA TECH UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re		40
		OCE	RDTE/Other Research & Development-Basic Re		30
	STATE TOTAL				70
LYNNTECH INC	Texas	ARMY	RDTE/Other Research & Development-Basic Re		50
MADEN TECH CONSULTING INC	California	NAVY	RDTE/Other Research & Development-Basic Re		1,332
	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		5,194
					6,526
CONTRACTOR TOTAL					
MAGNA ENTERPRISES INTL	California	NAVY	RDTE/Other Research & Development-Basic Re		449
MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		290
MARDON INC	California	USAF	RDTE/Other Research & Development-Basic Re		314
MARK RESOURCES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		148-
MARQUARDT COMPANY THE	California	NAVY	RDTE/Other Research & Development-Basic Re		607
MARTIN GOFFMAN ASSOCIATES	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
MASSACHUSETTS INST OF TECHNOLOG	Maine	NAVY	RDTE/Other Research & Development-Basic Re		895
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		1,530
		NAVY	RDTE/Other Research & Development-Basic Re		80
		USAF	RDTE/Other Research & Development-Basic Re		262
		OCE	RDTE/Other Research & Development-Basic Re		143
	STATE TOTAL				2,015
CONTRACTOR TOTAL					2,910
MATERIALS ELECTROCHEMICAL RES	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		45
MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Other Research & Development-Basic Re		50
MAXWELL LABORATORIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		198

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AZ11	(CONTINUED)				
			USAF	RDTE/Other Research & Development-Basic Re	\$ 767
		STATE TOTAL			965
	MCDONNELL AIRCRAFT COMPANY	Missouri	NAVY	RDTE/Other Research & Development-Basic Re	80
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Research & Development-Basic Re	90
	MDT ADVISERS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	43
	MEMPHIS STATE UNIVERSITY	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	67
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	50
	MESOSCALE ENVIR SIMULATN	New York	ARMY	RDTE/Other Research & Development-Basic Re	128
	METROLASER	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	245
	MIDDLEBURY COLLEGE	Vermont	OCE	RDTE/Other Research & Development-Basic Re	55
	MISSION RESEARCH CORPORATION	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	149 60
		STATE TOTAL			209
			USAF	RDTE/Other Research & Development-Basic Re	785
	CONTRACTOR TOTAL	N.H.			994
	MISSISSIPPI STATE UNIVERSITY	Miss	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	160 40
		STATE TOTAL			200
	MISSOURI SYSTEM UNIVERSITY	Missouri	NAVY	RDTE/Other Research & Development-Basic Re	72
	MODELL DEVELOPMENT CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	124
	MONTEREY BAY CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	33
	MOTE MARINE LABORATORY	Florida	OCE	RDTE/Other Research & Development-Basic Re	48
	MOTIVAIR CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	50
	MYCOTECH CORPORATION	Montana	NAVY	RDTE/Other Research & Development-Basic Re	50

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AZ11 (CONTINUED)						
	NATIONAL ACADEMY SCIENCES USA	California	NAVY	RDTE/Other Research & Development-Basic Re		71
		D.C.	ARMY	RDTE/Other Research & Development-Basic Re		1,703
	CONTRACTOR TOTAL					1,774
	NATIONAL CNCL ON RADTN PRCTN	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		45
	NEW ENGLAND INSTITUTE FOR	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		32
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		343
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Other Research & Development-Basic Re		1,017
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re		762
			NAVY	RDTE/Other Research & Development-Basic Re		750
	STATE TOTAL					1,512
	NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Research & Development-Basic Re		103
	NORMANDEAU ASSOC INC	S Carolina	OCE	RDTE/Other Research & Development-Basic Re		82
	NORTH CAROLINA A&T STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		34
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		543
			OCE	RDTE/Other Research & Development-Basic Re		36
	STATE TOTAL					579
	NORTH COAST INNOVATION INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		49
	NORTHEAST LOUISIANA UNIVERSITY	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		90
	NORTHWEST TECHNICAL INDUSTRIES	Washington	NAVY	RDTE/Other Research & Development-Basic Re		40
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		251
	NTI INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		47
	NUCLEAR REMEDIATION TECH CORP	California	USAF	RDTE/Other Research & Development-Basic Re		190
	OCEAN WEATHER INC	Conn	OCE	RDTE/Other Research & Development-Basic Re		28
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Research & Development-Basic Re		185
	OFFSHORE & COASTAL	Penn	ARMY	RDTE/Other Research & Development-Basic Re		65

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AZ11 (CONTINUED)

OFFSHORE & COASTAL TECH INC	Miss	OCE	RDTE/Other Research & Development-Basic Re	\$	60
OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		35
		OCE	RDTE/Other Research & Development-Basic Re		121
		STATE TOTAL			156
OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re		135
		OCE	RDTE/Other Research & Development-Basic Re		41
		STATE TOTAL			176
OLD DMNION UNIV RES FOUNDATION	Virginia	OCE	RDTE/Other Research & Development-Basic Re		29
OLYMPIC LOAD & TEST	Washington	NAVY	RDTE/Other Research & Development-Basic Re		55
OPTech LABORATORY	California	ARMY	RDTE/Other Research & Development-Basic Re		50
OPTICAL CORP OF AMERICA	California	NAVY	RDTE/Other Research & Development-Basic Re		49
OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		652
OREGON GRAD CTR STUDY RESEARCH	Oregon	OCE	RDTE/Other Research & Development-Basic Re		70
OREGON STATE UNIVERSITY	Oregon	ARMY	RDTE/Other Research & Development-Basic Re		80
		NAVY	RDTE/Other Research & Development-Basic Re		89
		OCE	RDTE/Other Research & Development-Basic Re		120
		STATE TOTAL			289
OUACHITA BAPTIST UNIVERSITY	Arkansas	OCE	RDTE/Other Research & Development-Basic Re		69
PENNSYLVANIA STATE UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re		241
PERKIN-ELMER CORPORATION THE	Conn	NAVY	RDTE/Other Research & Development-Basic Re		100
PHASEX CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Basic Re		121
PHOTO METRIC INC	Mass	USAF	RDTE/Other Research & Development-Basic Re		198
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		50
PHYSICS MATHEMATICS & COMPUTER	New Mexico	NAVY	RDTE/Other Research & Development-Basic Re		49
PICOTRONIX INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		50
POLYTECHNIC UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		40

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

POTOMAC PHOTONICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	\$	110
POTOMAC RESEARCH INCORPORATED	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		60
	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		50
CONTRACTOR TOTAL					110
PRC INC	California	NAVY	RDTE/Other Research & Development-Basic Re		125
PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		434
PRODUCT PLANNING INC	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		262
PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Research & Development-Basic Re		212
	OCE	RDTE/Other Research & Development-Basic Re			133
STATE TOTAL					345
QUEST STRUCTURES	California	OCE	RDTE/Other Research & Development-Basic Re		114
QUESTAR DATA SYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		298
QUESTECH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		406
	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		632
CONTRACTOR TOTAL					1,039
RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Research & Development-Basic Re		32
REGENTS OF UNIV OF COLORADO	Colorado	OCE	RDTE/Other Research & Development-Basic Re		50
RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other Research & Development-Basic Re		370
RESEARCH FOR BETTER TEACHING	Mass	ARMY	RDTE/Other Research & Development-Basic Re		399
RGB ASSOCIATES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		48
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Research & Development-Basic Re		150
ROWE DEINES INSTRUMENTS INC	California	OCE	RDTE/Other Research & Development-Basic Re		207
ROYBAL & ASSOC A PROF CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		30
RUTGERS THE STATE UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		59

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AZ11 (CONTINUED)					
	S C S TELECOM INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	\$ 36
	S F A INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	1,667
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	565
	CONTRACTOR TOTAL				2,232
	S P SURVEYS	California	OCE	RDTE/Other Research & Development-Basic Re	54
	SAN DIEGO STATE UNIV FNDTN	California	NAVY	RDTE/Other Research & Development-Basic Re	623
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	50
	SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	100
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	2,459
	CONTRACTOR TOTAL				2,559
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	141 1,368 1,334
	STATE TOTAL				1,843
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	72
	CONTRACTOR TOTAL				1,915
	SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	300
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	329
	SCIENTIFIC SYSTEMS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	60
	SCULLY'S ALUMINUM CRAFTS, INC.	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	63
	SECO-DYN INC	California	ARMY	RDTE/Other Research & Development-Basic Re	171
	SEDIMENT INSTRMTATION RES DEV	Oregon	OCE	RDTE/Other Research & Development-Basic Re	35
	SENSORS UNLIMITED INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	100
	SEPARATION SYSTEMS TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Basic Re	49
	SIGNAL PROCESSING TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re	70

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

SJS CORPORATION	Oregon	OCE	RDTE/Other Research & Development-Basic Re	\$	33
SOFT SWITCH INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		928
SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		455
	Florida	NAVY	RDTE/Other Research & Development-Basic Re		4,292
CONTRACTOR TOTAL					4,747
SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re		26
SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Basic Re		938
SPACE POWER INCORPORATED	California	ARMY	RDTE/Other Research & Development-Basic Re		102
SPARTA INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		100
SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re		28
SPECTRAL SCIENCES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		100
SPIRE CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		245
SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Basic Re		598
		USAF	RDTE/Other Research & Development-Basic Re		144
		DLA	RDTE/Other Research & Development-Basic Re		3,325
STATE TOTAL					4,087
STANFORD UNIVERSITY	California	ARMY	RDTE/Other Research & Development-Basic Re		1,929
STATISICAL SIGNAL PROCESSING	California	ARMY	RDTE/Other Research & Development-Basic Re		69
SURFACE OPTICS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re		100
SYMBIOTECH. INC.	Conn	NAVY	RDTE/Other Research & Development-Basic Re		50
SYNDETIX INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		646
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		267
SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re		115
TARTAN LABORATORIES INC	Penn	USAF	RDTE/Other Research & Development-Basic Re		628
TASC	Mass	USAF	RDTE/Other Research & Development-Basic Re		1,487

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	TAU CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	330
	TAYLOR J F INC	Maryland	USAF	RDTE/Other Research & Development-Basic Re	139
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	36
	TECHNO SCIENCES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	306
		NAVY	RDTE/Other Research & Development-Basic Re	200	
	STATE TOTAL				506
	TELESOFT	California	USAF	RDTE/Other Research & Development-Basic Re	512
	TETRA TECH INC	California	OCE	RDTE/Other Research & Development-Basic Re	97
	TEXAS A & M RESEARCH FDN	Texas	ARMY	RDTE/Other Research & Development-Basic Re	51
		OCE	RDTE/Other Research & Development-Basic Re	84	
	STATE TOTAL				135
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Other Research & Development-Basic Re	715
	TEXAS RESEARCH INTERNATIONAL	Texas	ARMY	RDTE/Other Research & Development-Basic Re	58
		NAVY	RDTE/Other Research & Development-Basic Re	419	
	STATE TOTAL				478
	THAR DESIGN INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	50
	THE NEW YORK BOTANICAL GARDEN	New York	OCE	RDTE/Other Research & Development-Basic Re	40
	THERMOTREX CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	1,270
	THURMAN W. GADDIE	Ohio	OCE	RDTE/Other Research & Development-Basic Re	80
	TRI TESSCO	Texas	NAVY	RDTE/Other Research & Development-Basic Re	228
	TROWER W PETER	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	132
	TRUSTEES COLUMBIA UNIV	New York	ARMY	RDTE/Other Research & Development-Basic Re	650
	TRW INC	California	ARMY	RDTE/Other Research & Development-Basic Re	85
		NAVY	RDTE/Other Research & Development-Basic Re	9,250	
	STATE TOTAL				9,335
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	1,058	

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R-D DESCRIPTION	
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AZ11 (CONTINUED)

CONTRACTOR TOTAL

ULTRAMET	California	NAVY	RDTE/Other Research & Development-Basic Re	\$	10,393
UNIQUE MOBILITY INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		50
UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Basic Re		50
		NAVY	RDTE/Other Research & Development-Basic Re		100
		USAF	RDTE/Other Research & Development-Basic Re		26
					154

STATE TOTAL

Florida	NAVY	RDTE/Other Research & Development-Basic Re	279
			200
			479

CONTRACTOR TOTAL

UNIV OF CONN FOUNDATION INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	95
UNIV OF GA RESEARCH FOUNDATION	Georgia	OCE	RDTE/Other Research & Development-Basic Re	40
UNIVERSITIES SPACE RES ASSN	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	856
UNIVERSITY NC AT CHAPEL HILL	N Carolina	OCE	RDTE/Other Research & Development-Basic Re	76
UNIVERSITY OF ALA AT BRMNGHAM	Alabama	USAF	RDTE/Other Research & Development-Basic Re	45
UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	528
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Basic Re	903
UNIVERSITY OF CAMBRIDGE	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	30
UNIVERSITY OF CENTRAL FLORIDA	Florida	ARMY	RDTE/Other Research & Development-Basic Re	460
		NAVY	RDTE/Other Research & Development-Basic Re	148

STATE TOTAL

New York	NAVY	RDTE/Other Research & Development-Basic Re	608
			212
			819

CONTRACTOR TOTAL

UNIVERSITY OF CINCINNATI	Mass	ARMY	RDTE/Other Research & Development-Basic Re	136
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	72
	Georgia	OCE	RDTE/Other Research & Development-Basic Re	178

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Research & Development-Basic Re	\$	250
UNIVERSITY OF DELAWARE	Delaware	OCE	RDTE/Other Research & Development-Basic Re		60
UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Research & Development-Basic Re		52
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		217
		NAVY	RDTE/Other Research & Development-Basic Re		512
					90
	STATE TOTAL				602
UNIVERSITY OF IOWA THE	Iowa	NAVY	RDTE/Other Research & Development-Basic Re		121
UNIVERSITY OF MARYLAND SYSTEM	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		825
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Basic Re		190
		OCE	RDTE/Other Research & Development-Basic Re		90
	STATE TOTAL				280
UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re		80
		OCE	RDTE/Other Research & Development-Basic Re		37
	STATE TOTAL				117
UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		1,306
		OCE	RDTE/Other Research & Development-Basic Re		34
	STATE TOTAL				1,340
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		5,530
		OCE	RDTE/Other Research & Development-Basic Re		30
	STATE TOTAL				5,560
UNIVERSITY OF MISSISSIPPI	Miss	OCE	RDTE/Other Research & Development-Basic Re		199
UNIVERSITY OF MISSOURI SYSTEM	Missouri	ARMY	RDTE/Other Research & Development-Basic Re		54
UNIVERSITY OF NEVADA SYSTEM	Nevada	ARMY	RDTE/Other Research & Development-Basic Re		71
UNIVERSITY OF NEW ORLEANS	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re		36
UNIVERSITY OF PENNSYLVANIA	Penn	ARMY	RDTE/Other Research & Development-Basic Re		2,236

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Research & Development-Basic Re	163
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Basic Re	127
			NAVY	RDTE/Other Research & Development-Basic Re	350
			USAF	RDTE/Other Research & Development-Basic Re	114
	STATE TOTAL				590
	UNIVERSITY OF STRN MISS	Miss	ARMY	RDTE/Other Research & Development-Basic Re	118
			OCE	RDTE/Other Research & Development-Basic Re	29
	STATE TOTAL				147
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	1,268
	UNIVERSITY OF TEXAS ARLINGTON	Texas	OCE	RDTE/Other Research & Development-Basic Re	61
	UNIVERSITY OF TEXAS AT AUSTIN	Texas	ARMY	RDTE/Other Research & Development-Basic Re	487
	UNIVERSITY OF TEXAS AT DALLAS	Texas	NAVY	RDTE/Other Research & Development-Basic Re	50
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	51
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Research & Development-Basic Re	158
			OCE	RDTE/Other Research & Development-Basic Re	27
	STATE TOTAL				185
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	133
	UTAH STATE UNIVERSITY	Utah	OCE	RDTE/Other Research & Development-Basic Re	98
	VA INSTITUTE MARINE SCIENCE	Virginia	OCE	RDTE/Other Research & Development-Basic Re	131
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	30
			OCE	RDTE/Other Research & Development-Basic Re	83
	STATE TOTAL				113
	VARIAN ASSOCIATES INC	California	NAVY	RDTE/Other Research & Development-Basic Re	284
	VECTOR RESEARCH COMPANY INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50
	VENUE CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	47
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	80

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AZ11	(CONTINUED)				
			OCE	RDTE/Other Research & Development-Basic Re	\$ 128
		STATE TOTAL			208
	VITTOR BARRY A & ASSOCIATES	Alabama	OCE	RDTE/Other Research & Development-Basic Re	764
		Georgia	OCE	RDTE/Other Research & Development-Basic Re	386
		S Carolina	OCE	RDTE/Other Research & Development-Basic Re	92
	CONTRACTOR TOTAL				1,242
	WAGNER DANIEL H ASSOCIATES	Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	50 48
		STATE TOTAL			98
	WARE TECHNICAL SERVICES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	49
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	50
	WEST VIRGINIA RESEARCH CORP	W Virginia	OCE	RDTE/Other Research & Development-Basic Re	34
	WESTAT INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	71
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Other Research & Development-Basic Re	49
		Penn	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	100 254
		STATE TOTAL			354
	CONTRACTOR TOTAL				404
	WICKERSHEIMER ENGINEERS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	109
	WIEGEL ROBERT	California	OCE	RDTE/Other Research & Development-P.sic Re	28
	WOODS HOLE OCEANOGRAPHIC INST	Mass	ARMY	RDTE/Other Research & Development-Basic Re	71
	WRIGHT STATE UNIVERSITY	Ohio	OCE	RDTE/Other Research & Development-Basic Re	45
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	187
	ZYBRON INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	140
	R&D TOTAL				222,357

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AZ12	A T S INC	California	ARMY	RDTE/Other Research & Development-Explor D	\$ 115
	ACCSYS TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Explor D	114
	ADCOM SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	60
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Explor D	100
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Research & Development-Explor D	403
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Other Research & Development-Explor D	134
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Research & Development-Explor D	325
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Research & Development-Explor D	276
	ALL SOURCE PROCESSING INC	Kentucky	ARMY	RDTE/Other Research & Development-Explor D	1,723
		New Jersey	ARMY	RDTE/Other Research & Development-Explor D	41
	CONTRACTOR TOTAL				1,764
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Explor D	315
		NAVY	RDTE/Other Research & Development-Explor D		4,162
	STATE TOTAL				4,477
		Penn	NAVY	RDTE/Other Research & Development-Explor D	82
	CONTRACTOR TOTAL				4,559
	ALLIED SIGNAL INC	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	64
	ALPHATECH INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	349
	AMBER ENGINEERING INC	California	USAF	RDTE/Other Research & Development-Explor D	451
	AMCOMP CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	77
	AMERICAN INST RSRCH BEHAV SCI	D.C.	USAF	RDTE/Other Research & Development-Explor D	86
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Other Research & Development-Explor D	200
	AMOCO CORPORATION	Georgia	NAVY	RDTE/Other Research & Development-Explor D	30
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Other Research & Development-Explor D	95
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	92
	ANNAPOLIS RESEARCH & DEV	Texas	NAVY	RDTE/Other Research & Development-Explor D	200

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AZ12 (CONTINUED)					
	ANRO ENGINEERING INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	52
	ASI SYSTEMS INTERNATIONAL	Florida	USAF	RDTE/Other Research & Development-Explor D	3,251
	ASTROPOWER INC	Delaware	USAF	RDTE/Other Research & Development-Explor D	50
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Other Research & Development-Explor D	296
	AUBURN UNIVERSITY	Alabama	USAF	RDTE/Other Research & Development-Explor D	97
	AWARE INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	231
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Explor D	525
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Other Research & Development-Explor D	55
	BDM INTERNATIONAL INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	100
		Oklahoma	ARMY	RDTE/Other Research & Development-Explor D	100
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	2,387
	CONTRACTOR TOTAL				2,587
	BEI ELECTRONICS INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	50
	BELL COMMUNICATIONS RESEARCH	New Jersey	USAF	RDTE/Other Research & Development-Explor D	472
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	134
	BIGGER THAN LIFE INC	California	NAVY	RDTE/Other Research & Development-Explor D	236
	BLANCHARD & CO	Maryland	ARMY	RDTE/Other Research & Development-Explor D	200
	BOEING COMPANY THE	Penn	ARMY	RDTE/Other Research & Development-Explor D	137
		Texas	ARMY	RDTE/Other Research & Development-Explor D	6
	CONTRACTOR TOTAL				142
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	900
			NAVY	RDTE/Other Research & Development-Explor D	136
	STATE TOTAL				1,036
	BOOZ ALLEN & HAMILTON INC	California	ARMY	RDTE/Other Research & Development-Explor D	62

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	CALIFORNIA RESEARCH & TECH	California	NAVY	RDTE/Other Research & Development-Explor D	\$ 193
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	417
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Explor D	597
	CARTER ENVIRONMENTAL LAB	California	ARMY	RDTE 'Other Research & Development-Explor D	131-
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Explor D	100
	CHEMGEN CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	50
	CHEMICAL DELIVERY SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	54
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	250
	CHOMERICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	161
	CHROMEX, INC.	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	50
	COLSA INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	2,075
	COMBUSTION PROP & BAL TECH COR	Penn	ARMY	RDTE/Other Research & Development-Explor D	30
	COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	300
	COMPUTER COMMAND AND CTRL CO	Penn	NAVY	RDTE/Other Research & Development-Explor D	119
	CONCEPTUAL SOFTWARE SYSTEMS	California	NAVY	RDTE/Other Research & Development-Explor D	50
	CREATIVE OPTICS INC	N.H.	ARMY	RDTE/Other Research & Development-Explor D	503
	CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	100
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Explor D	250
	DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	275
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	527
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Explor D	49
	DETROIT DIESEL CORP	Michigan	NAVY	RDTE/Other Research & Development-Explor D	1,578
	DIRECTED TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	260
			NAVY	RDTE/Other Research & Development-Explor D	71

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AZ12 (CONTINUED)

STATE TOTAL					
DISPLAYTECH INC	Colorado	NAVY		RDTE/Other Research & Development-Explor D	331
DRAPER CHARLES STARK LAB INC	Mass	NAVY		RDTE/Other Research & Development-Explor D	196
E I C LABORATORY INC	Mass	ARMY		RDTE/Other Research & Development-Explor D	921
EATON CORPORATION	New York	NAVY		RDTE/Other Research & Development-Explor D	62
		USAF		RDTE/Other Research & Development-Explor D	60
					325
STATE TOTAL					
ELECTRO-OPTIK CORPORATION	California	NAVY		RDTE/Other Research & Development-Explor D	385
ENERGY COMPRESSION RES CORP	California	ARMY		RDTE/Other Research & Development-Explor D	50
ENGINEERED AIR SYSTEMS INC	Missouri	ARMY		RDTE/Other Research & Development-Explor D	200
ENSCO INC	Virginia	NAVY		RDTE/Other Research & Development-Explor D	46
ENVIRONMENTAL TECHNOLOGIES GRO	Maryland	NAVY		RDTE/Other Research & Development-Explor D	1,359
EXFLUOR RESEARCH CORPORATION	Texas	NAVY		RDTE/Other Research & Development-Explor D	160
FALON INC	California	USAF		RDTE/Other Research & Development-Explor D	35
FIBER MATERIALS INC	Maine	NAVY		RDTE/Other Research & Development-Explor D	440
	Nebraska	ARMY		RDTE/Other Research & Development-Explor D	709
		NAVY		RDTE/Other Research & Development-Explor D	66
CONTRACTOR TOTAL					
FIBERCHEM INC	Nevada	ARMY		RDTE/Other Research & Development-Explor D	775
FLAM & RUSSELL INC	Penn	NAVY		RDTE/Other Research & Development-Explor D	309
FLORIDA A&M UNIVERSITY	Florida	ARMY		RDTE/Other Research & Development-Explor D	50
FLOW RESEARCH INC	Washington	ARMY		RDTE/Other Research & Development-Explor D	65
FOSTER MILLER INC	Mass	NAVY		RDTE/Other Research & Development-Explor D	240
FUENTEZ SYSTEMS CONCEPTS INC	Virginia	NAVY		RDTE/Other Research & Development-Explor D	471
GAMMA-METRICS	California	ARMY		RDTE/Other Research & Development-Explor D	50
					2,395

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GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	\$	1,337
GENERAL SCIENTIFIC INSTRUMENTS	Michigan	NAVY	RDTE/Other Research & Development-Explor D		27
GEO CENTERS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D		1,386
GEO-MICROBIAL TECHNOLOGIES	Oklahoma	ARMY	RDTE/Other Research & Development-Explor D		50
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Explor D		158
GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Other Research & Development-Explor D		182
GTE CALIFORNIA INC	California	NAVY	RDTE/Other Research & Development-Explor D		1,111
GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D		1,045
HARRIS CORPORATION	Florida	USAF	RDTE/Other Research & Development-Explor D		483
HARRIS GROUP THE INC	Virginia	USAF	RDTE/Other Research & Development-Explor D		110
HERCULES INCORPORATED	Utah	NAVY	RDTE/Other Research & Development-Explor D		115
HI TEST LABORATORIES	Virginia	NAVY	RDTE/Other Research & Development-Explor D		43
HNC INC	Wisconsin	NAVY	RDTE/Other Research & Development-Explor D		50
HSE INCORPORATED	Michigan	NAVY	RDTE/Other Research & Development-Explor D		50
HUGHES AIRCRAFT COMPANY	California	ARMY NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D		295 533 622
	STATE TOTAL				1,450
HUGHES DANBURY OPTICAL SYSTEMS	Conn	NAVY	RDTE/Other Research & Development-Explor D		2,477
HUGHES STX CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Explor D		2,246
I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D		200
IABG	GERMANY	NAVY	RDTE/Other Research & Development-Explor D		182
INDRA TECHNOLOGY INCORPORATED	California	NAVY	RDTE/Other Research & Development-Explor D		507
INTELLIGENT LOGISTICS	N Dakota	NAVY	RDTE/Other Research & Development-Explor D		50
INTELLIGENT TEXT PROCESSING	California	ARMY	RDTE/Other Research & Development-Explor D		250

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Other Research & Development-Explor D	\$ 400
	INTERNATIONAL SENSOR TECH	Washington	NAVY	RDTE/Other Research & Development-Explor D	2,387
	IOWA STATE UNIVERSITY	Iowa	ARMY	RDTE/Other Research & Development-Explor D	314
	JAYCOR	California	NAVY	RDTE/Other Research & Development-Explor D	380
		Miss	USAF	RDTE/Other Research & Development-Explor D	180
	CONTRACTOR TOTAL				560
	JIREH SYSTEMS	Penn	NAVY	RDTE/Other Research & Development-Explor D	49
	K SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Explor D	330
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	770
			NAVY	RDTE/Other Research & Development-Explor D	93
	STATE TOTAL				863
	KEO CONSULTANTS	Mass	USAF	RDTE/Other Research & Development-Explor D	93
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	314
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	122
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Explor D	2,602
	LOCKHEED SANDERS INC	N.H.	USAF	RDTE/Other Research & Development-Explor D	80
	LORAL CORP	California	ARMY	RDTE/Other Research & Development-Explor D	200
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	65
	CONTRACTOR TOTAL				265
	MACH I INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	58
	MAINSTREAM ENGINEERING CORP	Florida	NAVY	RDTE/Other Research & Development-Explor D	44
	MARISYS INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	49
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Other Research & Development-Explor D	589
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	213

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	MATERIAL & ELECTROCHEMICAL RES	Arizona	ARMY	RDTE/Other Research & Development-Explor D	44
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D	257
	MAYA DESIGN GROUP INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	846
	MBR RESEARCH INC	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	143
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Research & Development-Explor D	319
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Explor D	50
	MEASUREMENT TECHNOLOGY NW	Washington	ARMY	RDTE/Other Research & Development-Explor D	42
	MEI TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Other Research & Development-Explor D	400
	METRATEK INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	3,282
	METRICA INC	Texas	USAF	RDTE/Other Research & Development-Explor D	250
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Research & Development-Explor D	400
	MICROELECTRONICS CMPT TECH CORP	Texas	ARMY	RDTE/Other Research & Development-Explor D	481
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	1,090
	MILES RICHARD E	New York	NAVY	RDTE/Other Research & Development-Explor D	50
	MINE SAFETY APPLIANCES CO	Penn	ARMY	RDTE/Other Research & Development-Explor D	146
	MIRAGE SYSTEMS	California	NAVY	RDTE/Other Research & Development-Explor D	1,738
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	144
		N.H.	USAF	RDTE/Other Research & Development-Explor D	44
		Virginia	NAVY	RDTE/Other Research & Development-Explor D	75
					40
					750
					50
					840
	CONTRACTOR TOTAL				497
	MITECH INC	Alabama	NAVY	RDTE/Other Research & Development-Explor D	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	MO SCI CORP	Missouri	ARMY	RDTE/Other Research & Development-Explor D	54
	MOIRESTRESS INC	New York	ARMY	RDTE/Other Research & Development-Explor D	46
	MULTISIGNAL TECHNOLOGY CORP	California	NAVY	RDTE/Other Research & Development-Explor D	49
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	49
	NEILLEN TECHNOLOGIES CORP.	Maryland	ARMY	RDTE/Other Research & Development-Explor D	49
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Research & Development-Explor D	28
	NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	485
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	158
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	118
	NORTHROP CORPORATION	California	USAF	RDTE/Other Research & Development-Explor D	250
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Explor D	48
	NUCLEAR & AEROSPACE MATERIALS	California	NAVY	RDTE/Other Research & Development-Explor D	493
	OLIN CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Explor D	235
	ONTAR CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Research & Development-Explor D	544
	OPTIMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	191
		Michigan	ARMY	RDTE/Other Research & Development-Explor D	675
		New Mexico	ARMY	RDTE/Other Research & Development-Explor D	810
	CONTRACTOR TOTAL				1,676
	OPTRA INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	49
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	ORBITAL TECHNOLOGIES CORP	Wisconsin	ARMY	RDTE/Other Research & Development-Explor D	250
	OREGON STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Research & Development-Explor D	80
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	5,889

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AZ12 (CONTINUED)

P R B ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	\$	47
PENETRON INC	Kentucky	ARMY	RDTE/Other Research & Development-Explor D		158
PERCEPTONICS INC	California	ARMY	RDTE/Other Research & Development-Explor D		100
PHASEX CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D		49
PHOTO METRIC INC	Mass	USAF	RDTE/Other Research & Development-Explor D		770
PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D		3,550
PHYSICAL OPTICS CORPORATION	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D		49 99
	STATE TOTAL				149
PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Research & Development-Explor D		188
POTOMAC RESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Explor D		90
PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Research & Development-Explor D		72
Q DOT INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D		499
QUALITY DECISION MANAGEMENT	Mass	USAF	RDTE/Other Research & Development-Explor D		449
QUANTUM MAGNETICS INC	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D		48 64
	STATE TOTAL				112
RADEX INC	Mass	USAF	RDTE/Other Research & Development-Explor D		798
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D		100
RALCON-APPLIED OPTICS	Utah	ARMY	RDTE/Other Research & Development-Explor D		100
RESEARCH ASSOC SYRACUSE INC	New York	USAF	RDTE/Other Research & Development-Explor D		111
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Research & Development-Explor D		169
RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D		883
ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D		1,100 300

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AZ12 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL		
	Iowa	NAVY	RDTE/Other Research & Development-Explor D	\$ 1,400
RUTGERS STATE UNIVERSITY OF NJ	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	594
RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Research & Development-Explor D	1,994
S-TRON	California	ARMY	RDTE/Other Research & Development-Explor D	1,604
SAFT AMERICA INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	275
SARCOS INC	Utah	ARMY	RDTE/Other Research & Development-Explor D	530
SAVI TECHNOLOGY INC	California	ARMY	RDTE/Other Research & Development-Explor D	739
SCHMITT LAYFIELD AND STEPRO	California	NAVY	RDTE/Other Research & Development-Explor D	204
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	49
SCIENCE APPLICATIONS INTL CORP	Arizona	ARMY	RDTE/Other Research & Development-Explor D	52
	California	ARMY	RDTE/Other Research & Development-Explor D	80
		NAVY	RDTE/Other Research & Development-Explor D	485
		ARMY	RDTE/Other Research & Development-Explor D	400
		NAVY	RDTE/Other Research & Development-Explor D	5,946
		STATE TOTAL		6,346
	Virginia	NAVY	RDTE/Other Research & Development-Explor D	362
				7,193
CONTRACTOR TOTAL	California	NAVY	RDTE/Other Research & Development-Explor D	500
SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Explor D	2,234
				2,734
CONTRACTOR TOTAL	Penn	NAVY	RDTE/Other Research & Development-Explor D	138
SEMCOR INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	335
SENSCI CORP	Arizona	ARMY	RDTE/Other Research & Development-Explor D	50
SIENNA RESEARCH, INC.	California	NAVY	RDTE/Other Research & Development-Explor D	50
SIGNAL ENGINEERING INC				

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AZ12 (CONTINUED)					
	SIPPICAN INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	SOCIETY OF AUTO ENGINEERS	Penn	ARMY	RDTE/Other Research & Development-Explor D	158
	SOCIOMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	862
	SONOMA RESEARCH	California	ARMY	RDTE/Other Research & Development-Explor D	146
	SOUTH DAKOTA STATE OF	S Dakota	ARMY	RDTE/Other Research & Development-Explor D	28
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Explor D	165
		NAVY	RDTE/Other Research & Development-Explor D	629	
	STATE TOTAL				794
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Explor D	300
	SPARTA INC	California	NAVY	RDTE/Other Research & Development-Explor D	570
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Explor D	84
		NAVY	RDTE/Other Research & Development-Explor D	152	
		USAF	RDTE/Other Research & Development-Explor D	250	
	STATE TOTAL				486
	ST JOE MINERALS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Explor D	681
	STANFORD UNIVERSITY	California	ARMY	RDTE/Other Research & Development-Explor D	780
	STATCOM INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	134
	SUNDSTRAND CORPORATION	Illinois	NAVY	RDTE/Other Research & Development-Explor D	299
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Research & Development-Explor D	453
	SYNETICS CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Explor D	49
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	229
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Research & Development-Explor D	1,132
	TALLEY DEFENSE SYSTEMS INC	Arizona	ARMY	RDTE/Other Research & Development-Explor D	130
	TASC	Mass	USAF	RDTE/Other Research & Development-Explor D	125
	TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	634

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	312
	TECHNOCHEM CO	N Carolina	NAVY	RDTE/Other Research & Development-Explor D	50
	TECOGEN INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	69
	TELEDYNE INDUSTRIES INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	86
		Ohio	NAVY	RDTE/Other Research & Development-Explor D	140
	CONTRACTOR TOTAL				226
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	600 275
			STATE TOTAL		875
	THERMEDICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	871
	THIOLKOL CORPORATION	Alabama	NAVY	RDTE/Other Research & Development-Explor D	72
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	104
	CONTRACTOR TOTAL				176
	TIMM R E & ASSOCIATES INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	76
	TITAN CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	149
	TORRINGTON COMPANY THE	Conn	ARMY	RDTE/Other Research & Development-Explor D	113
	TRANSDUCER RESEARCH INC	Illinois	ARMY	RDTE/Other Research & Development-Explor D	50
	TRUSTED INFORMATION SYSTEMS	Maryland	ARMY	RDTE/Other Research & Development-Explor D	69
	TRW INC	California	NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	700 313
			STATE TOTAL		1,013
	TSI INCORPORATED	Minnesota	ARMY	RDTE/Other Research & Development-Explor D	923
	UES INC	Ohio	USAF	RDTE/Other Research & Development-Explor D	49
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Explor D	1,265
	UNIV OF DISTRICT OF COLUMBIA	D.C.	ARMY	RDTE/Other Research & Development-Explor D	44

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	UNIVERSITY NC AT CHAPEL HILL	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	\$ 840
	UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Other Research & Development-Explor D	136
	UNIVERSITY OF DAYTON	Ohio	USAF	RDTE/Other Research & Development-Explor D	736
	UNIVERSITY OF DAYTON INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	37
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Other Research & Development-Explor D	30
	UNIVERSITY OF MARYLAND SYSTEM	Maryland	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	80 70
STATE TOTAL					150
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Explor D	200
	UNIVERSITY OF MISSISSIPPI	Miss	NAVY	RDTE/Other Research & Development-Explor D	62
	UNIVERSITY OF NEVADA SYSTEM	Nevada	ARMY	RDTE/Other Research & Development-Explor D	405
	UNIVERSITY OF NEW HAMPSHIRE	N. H.	NAVY	RDTE/Other Research & Development-Explor D	176
	UNIVERSITY OF TENNESSEE	Tennessee	NAVY	RDTE/Other Research & Development-Explor D	38
	UNIVERSITY OF TEXAS AT AUSTIN	Texas	USAF	RDTE/Other Research & Development-Explor D	75
	UNIVERSITY OF WEST FLORIDA	Florida	USAF	RDTE/Other Research & Development-Explor D	216
	UTD INC	Virginia	USAF	RDTE/Other Research & Development-Explor D	162
	VECTOR RESEARCH COMPANY INC	Michigan	NAVY	RDTE/Other Research & Development-Explor D	1,538
	VENTURE PLASTICS, INC.	California	ARMY	RDTE/Other Research & Development-Explor D	100
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Research & Development-Explor D	31
	VISTA RESEARCH	California	NAVY	RDTE/Other Research & Development-Explor D	75
	WENTWORTH INSTITUTE OF TECH	Mass	NAVY	RDTE/Other Research & Development-Explor D	180
	WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	1,678
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	84
		Penn	USAF	RDTE/Other Research & Development-Explor D	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	WORCESTER POLYTECHNIC INSTITUT	Mass	ARMY	RDTE/Other Research & Development-Explor D	134
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Research & Development-Explor D	87
	WYLE LABORATORIES	California	USAF	RDTE/Other R search & Development-Explor D	125
	YARDNEY TECHNICAL PRODUCTS	Conn	NAVY	RDTE/Other Research & Development-Explor D	57
	R&D TOTAL				294
					124,985
AZ13	4 CYCLE ENGINE	Washington	USAF	RDTE/Other Research & Development-Advanced	50
	A A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Advanced	3,529
	ADVANCED ENERGY	California	USAF	RDTE/Other Research & Development-Advanced	50
	AERO OPTICS INC	California	USAF	RDTE/Other Research & Development-Advanced	77
	ALLIANT TECHSYSTEMS INC	Minnesota	NAVY	RDTE/Other Research & Development-Advanced	66-
	AMERICAN TELEPHONE & TELG CO	New Jersey	USAF	RDTE/Other Research & Development-Advanced	2
	AMPTK INC	Mass	USAF	RDTE/Other Research & Development-Advanced	145
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Advanced	237
	AUTOMATION MANAGEMENT CONS	Maryland	NAVY	RDTE/Other Research & Development-Advanced	26
	AVCO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Advanced	44
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced	897
	BABCOCK & WILCOX COMPANY THE	Ohio	NAVY	RDTE/Other Research & Development-Advanced	745
	BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Other Research & Development-Advanced	109
	BALL CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	1,248
	BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	800
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Advanced	492
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Other Research & Development-Advanced	1,821
	BDM MANAGEMENT SERVICES CO	Virginia	USAF	RDTE/Other Research & Development-Advanced	130

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AZ13 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	Mass	USAF	RDTE/Other Research & Development-Advanced	417
	C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced	475
	CALIFORNIA RESEARCH & TECH	New Jersey	ARMY	RDTE/Other Research & Development-Advanced	230
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Research & Development-Advanced	192
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Other Research & Development-Advanced	200
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Research & Development-Advanced	35,310
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Other Research & Development-Advanced	141
	DYNAMET TECHNOLOGY INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	171
	EAGLE PICHER INDUSTRIES INC	Texas	USAF	RDTE/Other Research & Development-Advanced	840
	ELECTRO ENERGY	Conn	USAF	RDTE/Other Research & Development-Advanced	50
	ELECTRONIC COMPONENT SALES	Maryland	NAVY	RDTE/Other Research & Development-Advanced	2,341
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Other Research & Development-Advanced	160
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Research & Development-Advanced	59
	FROST ENGINEERING DEVELOPMENT	Colorado	USAF	RDTE/Other Research & Development-Advanced	403
	G E COMPANY	New York	USAF	RDTE/Other Research & Development-Advanced	560
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	126
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Advanced	45
		New York	NAVY	RDTE/Other Research & Development-Advanced	300
		Ohio	USAF	RDTE/Other Research & Development-Advanced	82
	CONTRACTOR TOTAL				427
	GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Other Research & Development-Advanced	421
	GINER INC	Mass	USAF	RDTE/Other Research & Development-Advanced	54
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Advanced	21,914
	I A P RESEARCH INC	Ohio	NAVY	RDTE/Other Research & Development-Advanced	54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	ISOTHERMAL SYSTEMS RESEARCH	Washington	USAF	RDTE/Other Research & Development-Advanced	95
	ITT CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Advanced	59
	JET PROCESS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Advanced	50
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Advanced	55
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Other Research & Development-Advanced	75
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Advanced	735
		USAF		RDTE/Other Research & Development-Advanced	390
		STATE TOTAL			1,125
	LOGICON INC	California	ARMY	RDTE/Other Research & Development-Advanced	40
	MARDON INC	California	USAF	RDTE/Other Research & Development-Advanced	30
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	150
		Colorado	USAF	RDTE/Other Research & Development-Advanced	685
		Florida	ARMY	RDTE/Other Research & Development-Advanced	326
		USAF		RDTE/Other Research & Development-Advanced	990
		STATE TOTAL			1,316
	CONTRACTOR TOTAL				2,151
	MASSACHUSETTS INST OF TECHNOLOG	Mass	USAF	RDTE/Other Research & Development-Advanced	373,805
	MCA ENGINEERS INC	California	NAVY	RDTE/Other Research & Development-Advanced	117
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Advanced	66
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	147
	MOTOROLA INC	Arizona	ARMY	RDTE/Other Research & Development-Advanced	348
	NEOCERA INC	New Jersey	USAF	RDTE/Other Research & Development-Advanced	200
	NEW LIGHT INDUSTRIES	Washington	USAF	RDTE/Other Research & Development-Advanced	68
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Advanced	26-
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Research & Development-Advanced	170

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	NORTHROP CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	50
	O A O CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced	234
	OLIN CORPORATION	Tennessee	ARMY	RDTE/Other Research & Development-Advanced	2,762
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	253
	PARKER DRILLING COMPANY	Florida	USAF	RDTE/Other Research & Development-Advanced	849
	PATHFINDER SYSTEMS INC	Colorado	NAVY	RDTE/Other Research & Development-Advanced	637
	PDI CORP	Maryland	NAVY	RDTE/Other Research & Development-Advanced	100
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	70
	PULSE INSTRUMENTS	California	USAF	RDTE/Other Research & Development-Advanced	164
	RADEX INC	Mass	USAF	RDTE/Other Research & Development-Advanced	395
	RASOR ASSOCIATES INC	California	USAF	RDTE/Other Research & Development-Advanced	295
	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other Research & Development-Advanced	90
			USAF	RDTE/Other Research & Development-Advanced	500
			STATE TOTAL		590
	RESEARCH SCIENCES INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced	282
	RGI INC	California	NAVY	RDTE/Other Research & Development-Advanced	849
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Other Research & Development-Advanced	1,085
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Research & Development-Advanced	320
	S F A INC	D.C.	NAVY	RDTE/Other Research & Development-Advanced	371
	S T SYSTEMS CORPORATION	D.C.	USAF	RDTE/Other Research & Development-Advanced	215
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Advanced	45
	SPACE EXPLORATION ASSOCIATES	Ohio	USAF	RDTE/Other Research & Development-Advanced	74
	SRI INTERNATIONAL	California	USAF	RDTE/Other Research & Development-Advanced	1,543
	SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Advanced	950

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
TASC		Florida	USAF	RDTE/Other Research & Development-Advanced	424
TECHNICAL COMMUNICATIONS CORP		Mass	NAVY	RDTE/Other Research & Development-Advanced	267
TECHNOLOGY ASSSSMENT TRANSF INC		Maryland	USAF	RDTE/Other Research & Development-Advanced	77
TELEDYNE INDUSTRIES INC		Alabama	USAF	RDTE/Other Research & Development-Advanced	120
THERMACORE INC		Penn	USAF	RDTE/Other Research & Development-Advanced	69
TORANAGA TECHNOLOGIES		California	USAF	RDTE/Other Research & Development-Advanced	49
ULTRAMET		California	USAF	RDTE/Other Research & Development-Advanced	40
UNIVERSITY OF ARIZONA		Arizona	USAF	RDTE/Other Research & Development-Advanced	825
UNIVERSITY OF CENTRAL FLORIDA		Florida	NAVY	RDTE/Other Research & Development-Advanced	621
UNIVERSITY OF FLORIDA		Florida	USAF	RDTE/Other Research & Development-Advanced	35
UNIVERSITY OF PITTSBURGH		Penn	USAF	RDTE/Other Research & Development-Advanced	633
UNIVERSITY OF SOUTHERN CALIF		California	USAF	RDTE/Other Research & Development-Advanced	768
UNIVERSITY OF UTAH		Utah	ARMY	RDTE/Other Research & Development-Advanced	100
VISIDYNE INC		Mass	USAF	RDTE/Other Research & Development-Advanced	2,451
WINDROCK ASSOCIATES		Tennessee	ARMY	RDTE/Other Research & Development-Advanced	194
R&D TOTAL					472,261
AZ14 AETECH INC					
ALLIANT TECHSYSTEMS INC		California	USAF	RDTE/Other Research & Development-Engr Dev	50
ARINC RESEARCH CORPORATION		Minnesota	ARMY	RDTE/Other Research & Development-Engr Dev	1,697
BABINGTON ENGINEERING		Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	889
BDM INTERNATIONAL INC		Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	189
BLUE CHIP COMPUTERS CO THE		California	USAF	RDTE/Other Research & Development-Engr Dev	622
BOEING COMPANY THE		Ohio	USAF	RDTE/Other Research & Development-Engr Dev	661
BOOZ ALLEN & HAMILTON INC		Washington	USAF	RDTE/Other Research & Development-Engr Dev	235-
		Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	5,097

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)					
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Research & Development-Engr Dev	30
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	4,122
	CTA INCORPORATED	Colorado	USAF	RDTE/Other Research & Development-Engr Dev	1,266
		Ohio	USAF	RDTE/Other Research & Development-Engr Dev	27
	CONTRACTOR TOTAL				1,293
	CYBERNET SYSTEMS CORP	Michigan	ARMY	RDTE/Other Research & Development-Engr Dev	246
	E M L RESEARCH	Mass	USAF	RDTE/Other Research & Development-Engr Dev	245
	ELECTRONIC WARFARE ASSOCIATES	W Virginia	NAVY	RDTE/Other Research & Development-Engr Dev	1,690
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	1,720
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Other Research & Development-Engr Dev	601
	ETA TECHNOLOGIES CORPORATION	California	NAVY	RDTE/Other Research & Development-Engr Dev	1,850
	GENERAL ANALYTICS INC	Georgia	NAVY	RDTE/Other Research & Development-Engr Dev	51
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Engr Dev	10,629
	HILTON SYSTEMS INC	Alabama	NAVY	RDTE/Other Research & Development-Engr Dev	640
		Miss	NAVY	RDTE/Other Research & Development-Engr Dev	950
	CONTRACTOR TOTAL				1,590
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Other Research & Development-Engr Dev	731
	INTERMETRICS INC	Penn	NAVY	RDTE/Other Research & Development-Engr Dev	30
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Other Research & Development-Engr Dev	50
	JAMES HAYES AND ASSOCIATES	California	USAF	RDTE/Other Research & Development-Engr Dev	49
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Research & Development-Engr Dev	3,693
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Research & Development-Engr Dev	194
		Georgia	NAVY	RDTE/Other Research & Development-Engr Dev	58
		Utah	NAVY	RDTE/Other Research & Development-Engr Dev	84

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ14 (CONTINUED)

	CONTRACTOR TOTAL				\$	336-
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Research & Development-Engr Dev		30
	MICHIGAN TECHNOLOGICAL UNIV	Michigan	ARMY	RDTE/Other Research & Development-Engr Dev		175
	MICROTURBO NORTH AMERICA INC	Texas	ARMY	RDTE/Other Research & Development-Engr Dev		1,470
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Engr Dev		266
	MITRE CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev		238,172
	PRAGMATICS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		222
	PRINCETON SCIENTIFIC INSTRS	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev		56
	RESOURCE CONSULTANTS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		192
	RF MICROSYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		799
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Other Research & Development-Engr Dev		3,293
		New Mexico	ARMY	RDTE/Other Research & Development-Engr Dev		12,648
		Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		7,163
	CONTRACTOR TOTAL					23,104
	SETA CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		2,267
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Engr Dev		128
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		50
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Other Research & Development-Engr Dev		280
	TASC	Florida	USAF	RDTE/Other Research & Development-Engr Dev		2,609
	TELEMARC INCORPORATED	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		831
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Research & Development-Engr Dev		50
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Other Research & Development-Engr Dev		602
	TRIDENT SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		50
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		997

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)					
	VIASAT INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	50
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Other Research & Development-Engr Dev	61,323
	YAMADA SCIENCE & ART CORP	New Mexico	USAF	RDTE/Other Research & Development-Engr Dev	449
	R&D TOTAL				367,725
AZ15	AGE LIGHT INC	Florida	USAF	RDTE/Other Research & Development-Op Sys D	169
	AMTEC CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Op Sys D	2,976
	AUTOMATION MANAGEMENT CONS	Maryland	NAVY	RDTE/Other Research & Development-Op Sys D	91
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Op Sys D	149
	BETAC CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	1,471
	BOOZ ALLEN & HAMILTON INC	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	131
	COMPATIBLE MICRO SOLUTIONS	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	100
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Op Sys D	224
	DELEX SYSTEMS INCORPORATED	Virginia	USAF	RDTE/Other Research & Development-Op Sys D	100
	ETA TECHNOLOGIES CORPORATION	California	NAVY	RDTE/Other Research & Development-Op Sys D	1,693
	FEMME COMP INC	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	533
	FENNELL TIMOTHY D & COMPANY	D.C.	ARMY	RDTE/Other Research & Development-Op Sys D	67
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	538
	HARDIGG INDUSTRIES INC	Mass	ARMY	RDTE/Other Research & Development-Op Sys D	162
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Op Sys D	4,018
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	349
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Other Research & Development-Op Sys D	51,362
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	60
	INSTRUCTIONAL SCIENCE & DEV	California	NAVY	RDTE/Other Research & Development-Op Sys D	266
	KAPPLER SAFETY GROUP INC	Alabama	NAVY	RDTE/Other Research & Development-Op Sys D	57

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AZ15 (CONTINUED)					
	LOCKHEED ENGINEERING & SCIENCE	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	\$ 450
	LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	1,659-
	LOGISTICS MANAGEMENT INSTITUTE	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	29,524
	MAGNAVOX GOVT & INDSTR ELCTR	New Jersey	ARMY	RDTE/Other Research & Development-Op Sys D	102
	NATION'L BUREAU OF ASIAN RESEA	Washington	ARMY	RDTE/Other Research & Development-Op Sys D	64
	ONTAR CORPORATION	Mass	USAF	RDTE/Other Research & Development-Op Sys D	120
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Op Sys D	95
	ORION INTERNATIONAL TECH	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	4,751
	PAR TECHNOLOGY CORPORATION	D.C.	ARMY	RDTE/Other Research & Development-Op Sys D	82
	PARKER DRILLING COMPANY	Florida	USAF	RDTE/Other Research & Development-Op Sys D	300
	PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Other Research & Development-Op Sys D	150
	RESOURCE CONSULTANTS INC	California	NAVY	RDTE/Other Research & Development-Op Sys D	960
	RONA THOMAS P	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	67
	S T SYSTEMS CORPORATION	D.C.	USAF	RDTE/Other Research & Development-Op Sys D	75
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	4,555
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Op Sys D	889
			NAVY	RDTE/Other Research & Development-Op Sys D	352
					1,241
	STATE TOTAL				
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Op Sys D	204
	SURVIVE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	785
	U S SPRINT COMMUNCTIONS LTD PRINR	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	893
	UNITED TECH OPT SYSTEMS	Florida	ARMY	RDTE/Other Research & Development-Op Sys D	106
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Research & Development-Op Sys D	267
		Florida	ARMY	RDTE/Other Research & Development-Op Sys D	72

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AZ15 (CONTINUED)

CONTRACTOR TOTAL					\$
UNIVERSITY OF CALIFORNIA	California	ARMY NAVY	RDTE/Other Research & Development-Op Sys D RDTE/Other Research & Development-Op Sys D		340 280 2,288
STATE TOTAL					
UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Op Sys D		8,010
UNIVERSITY OF TEXAS EL PASO	Texas	ARMY	RDTE/Other Research & Development-Op Sys D		132
UNIVERSITY OF VERMONT	Vermont	ARMY	RDTE/Other Research & Development-Op Sys D		161
VEXCEL CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Op Sys D		294
R&D TOTAL					
AZ16 A3 CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		118,882
ABCOM SYSTEMS TECHNOLOGY	Mass	USAF	RDTE/Other Research & Development-Mgmt & S		158
ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Other Research & Development-Mgmt & S		54
ADVANCED OPTICAL SYSTEMS INC	Alabama	NAVY	RDTE/Other Research & Development-Mgmt & S		55
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S		50
AETECH INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		358
ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S		49
ALPHATECH INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S		345
ALPINE WEST LABORATORIES INC	Utah	ARMY	RDTE/Other Research & Development-Mgmt & S		51
AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Research & Development-Mgmt & S		110
AMTEC CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S		48
ANALYTICAL SOFTWARE INC	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		868
APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S		217
APPLIED SCIENCES INC	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S		56
ARTIFICIAL INTELLIGENCE CORP	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		50
					79

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1992

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	AURORA ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 100
	AURORA OPTICS INC	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	395
	BONNEVILLE SCIENTIFIC INC	Utah	USAF	RDTE/Other Research & Development-Mgmt & S	249
	BOWIE STATE COLLEGE	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	52
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	201
	BURGE AND ASSOCIATES	Arizona	USAF	RDTE/Other Research & Development-Mgmt & S	260
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	254
		Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	49,433
	CONTRACTOR TOTAL				49,686
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	55
	CENTER FOR STRATEGIC STUDY	D.C.	ARMY	RDTE/Other Research & Development-Mgmt & S	39
	CERACON INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	250
	CHARGED INJECTION CORPORATION	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	51
	CLARK ATLANTA UNIVERSITY INC	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	28
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	61
	COLUMBIA RESEARCH INSTRUMENTS	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	206
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	126
	CONCEPTUAL MINDWORKS INC	Domestic	USAF	RDTE/Other Research & Development-Mgmt & S	47
	CREARE INC	N.H.	USAF	RDTE/Other Research & Development-Mgmt & S	197
	CRYSTALLUME	California	USAF	RDTE/Other Research & Development-Mgmt & S	70
	D M E CORP	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	73
	DCS CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	50

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	DEACON RESEARCH	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	423
	DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	418
	EAI CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	266
	ELECTROIMPACT INC	Washington	ARMY	RDTE/Other Research & Development-Mgmt & S	270
	ENVIRONMENTAL SYSTEMS RES INST	California	ARMY	RDTE/Other Research & Development-Mgmt & S	3,467
	ESSEX CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	50
	EXPERTSOFT	California	USAF	RDTE/Other Research & Development-Mgmt & S	60
	FED CORPORATION	N Carolina	USAF	RDTE/Other Research & Development-Mgmt & S	53
	FOSTER MILLER INC	Mass	ARMY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	284 382
			STATE TOTAL		668
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S	2,351
	GENTEX CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	1,253
	GEOMET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	199
	GLOBAL INFO SYSTEMS TECHNOLOGY	Domestic	USAF	RDTE/Other Research & Development-Mgmt & S	50
	HNC INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	250
	HONTEK CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Mgmt & S	51
	HOWARD UNIVERSITY	D.C.	ARMY	RDTE/Other Research & Development-Mgmt & S	33
	HUGHES AIRCRAFT COMPANY	Arizona	NAVY	RDTE/Other Research & Development-Mgmt & S	73
		California	ARMY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	942 1,649
			STATE TOTAL		2,592
	CONTRACTOR TOTAL				2,665
	I-NET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	98

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ16 (CONTINUED)

INFORMATION SYSTEMS NTRKS CORP	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	\$	79
	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		79
CONTRACTOR TOTAL					158
INNCFATIVE RESEARCH INC	Colorado	NAVY	RDTE/Other Research & Development-Mgmt & S		52
	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		250
CONTRACTOR TOTAL					302
INTEGRATED PARALLEL TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Mgmt & S		261
INTEGRATED SENSORS INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S		200
INTELLIGENT AUTOMATION INC	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S		284
INTERNATIONAL POLYMER CORP	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S		53
INTERNATIONAL COMPUTERS TELECOM	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S		196
ISM TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S		254
ISX CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S		245
JIL SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S		52
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S		125
KPMG PEAT MARWICK	D.C.	ARMY	RDTE/Other Research & Development-Mgmt & S		353
LITECOM INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S		250
LOGISTICS MANAGEMENT ENGRG	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S		45
LOGISTICS MANAGEMENT INSTITUTE	D.C.	ARMY OCE	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S		556 1,199
STATE TOTAL					1,755
LUXTRON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S		396
M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		50
M TECHNOLOGIES INC	Penn	USAF	RDTE/Other Research & Development-Mgmt & S		299

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 44
	MAGNETIC ANALYSIS CORP	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	500
	MAK TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	48
	MARTIN MARIETTA CORPORATION	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	68
	MEI TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	747
	MICRO-OPTICS TECHNOLOGIES INC	Wisconsin	USAF	RDTE/Other Research & Development-Mgmt & S	300
	MSNW INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	59
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Mgmt & S	87
	NEOMECS INC	Minnesota	USAF	RDTE/Other Research & Development-Mgmt & S	50
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	8,430
	OGDEN GOVERNMENT SERVICES CIRP	California	NAVY	RDTE/Other Research & Development-Mgmt & S	2,151
	OMNI ANALYSIS INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S	128
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	423
	OPTRA INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	50
	ORION INTERNATIONAL TECH	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	389
	ORION RESEARCH INCORPORATED	California	ARMY	RDTE/Other Research & Development-Mgmt & S	100
		PANAMA	ARMY	RDTE/Other Research & Development-Mgmt & S	150
	CONTRACTOR TOTAL				250
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Research & Development-Mgmt & S	87
			USAF	RDTE/Other Research & Development-Mgmt & S	200
	STATE TOTAL				287
	PDA ENGINEERING	California	USAF	RDTE/Other Research & Development-Mgmt & S	337
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	50
			USAF	RDTE/Other Research & Development-Mgmt & S	50
	STATE TOTAL				100

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 47
	PHYSICAL SCIENCES INC.	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S	293
	Q DOT INC	Colorado	USAF	RDTE/Other Research & Development-Mgmt & S	125
	QUALITY DECISION MANAGEMENT	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	50
	RETICULAR SYSTEMS INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	334
	S A A ELECTRICAL CORP	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	75
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	653
	SCHNEIDER INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	101,976
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S	242
		Mass	USAF	RD'E/Other Research & Development-Mgmt & S	165
	CONTRACTOR TOTAL				407
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	2,819
			USAF	RDTE/Other Research & Development-Mgmt & S	326
	STATE TOTAL				3,145
	SEARCH TECHNOLOGY INC	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	SIGNAL CORP	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	193
	SONALYSTS INC	Conn	IAVY	RDTE/Other Research & Development-Mgmt & S	299
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	162
	SPARSA INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	221
			USAF	RDTE/Other Research & Development-Mgmt & S	156
	STATE TOTAL				377
	SPECT A SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S	235
	STANDARD TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	205
	STRUCTURAL INTEGRITY ASSOC INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	364
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	446

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	SUN CONTROL SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	67
	SUPERIOR VACUUM	Minnesota	USAF	RDTE/Other Research & Development-Mgmt & S	300
	SVERDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	43,684
	SYSTEM PLANNING CORPORATION	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	97
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	286
	TECHNICAL RESEARCH ASSOCIATES	Utah	USAF	RDTE/Other Research & Development-Mgmt & S	165
	TECHNOLOGY SYSTEMS INC	Maine	USAF	RDTE/Other Research & Development-Mgmt & S	57
	THERMACORE INC	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	65
	THERMAL SPRAY TECHNOLOGIES	Wisconsin	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	THOMPSON ALUMINUM CASTING CO	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S	494
	TYBRIN CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	429
	UNIVERSITY OF PITTSBURGH TR	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	4,885
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	185
		Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	436
	CONTRACTOR TOTAL				621
	WEDEVEN ASSOCIATES INC	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	301
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	92
	WIZDOM SYSTEMS INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S	50
	R&D TOTAL				248,371
	GRAND TOTAL FOR R&D				\$ 21,730,462